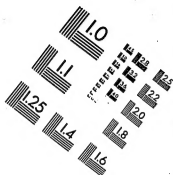
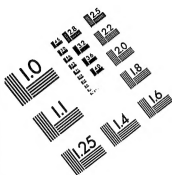




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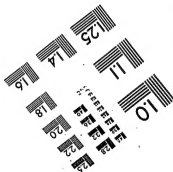
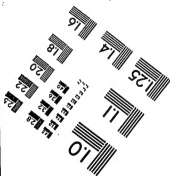
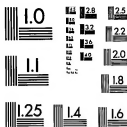
MS303-1980



Centimeter



Inches



Thomas A Edison Papers

A SELECTIVE MICROFILM EDITION

PART II (1879-1886)

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Frederick, Maryland
1987

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at
Rutgers, The State University
endorsed by
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18 June 1981**

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START

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THOMAS A. EDISON PAPERS
A SELECTIVE MICROFILM EDITION
PART II
(1879-1886)

REEL 57

DOCUMENT FILE SERIES (DOC-17)

D-81-001 through D-81-025
("Bergmann & Company" through "Electric Light -
Edison Electric Lamp Company - Lamp Test Reports")

1881 DOCUMENT FILE

D-81-001	Bergmann & Company
D-81-002	Deafness
D-81-003	Drexel, Morgan & Company [not filmed]
D-81-004	Edison, T.A. - General
D-81-005	Edison, T.A. - Accounts
D-81-006	Edison, T.A. - Advice
D-81-007	Edison, T.A. - Articles
D-81-008	Edison, T.A. - Autograph and Photograph Requests [not filmed]
D-81-009	Edison, T.A. - Bills and Receipts [not filmed]
D-81-010	Edison, T.A. - Bills of Lading [not filmed]
D-81-011	Edison, T.A. - Book and Journal Orders
D-81-012	Edison, T.A. - Clubs and Societies
D-81-013	Edison, T.A. - Employment
D-81-014	Edison, T.A. - Family
D-81-015	Edison, T.A. - Honors and Awards
D-81-016	Edison, T.A. - Insurance [not filmed]
D-81-017	Edison, T.A. - Payroll Receipts [not filmed]
D-81-018	Edison, T.A. - Unsolicited Inquiries [not filmed]
D-81-019	Edison, T.A. - Visitors [not filmed]
D-81-020	Electric Light - General
D-81-021	Electric Light - Edison Company for Isolated Lighting
D-81-022	Electric Light - Edison Electric Illuminating Company of New York
D-81-023	Electric Light - Edison Electric Lamp Company - General
D-81-024	Electric Light - Edison Electric Lamp Company - Accounts
D-81-025	Electric Light - Edison Electric Lamp Company - Lamp Test Reports
D-81-026	Electric Light - Edison Electric Light Company

D-81-027 Electric Light - Edison Electric Light Company of Europe, Ltd. - General
D-81-028 Electric Light - Edison Electric Light Company of Europe, Ltd. - Accounts
[not filmed]
D-81-029 Electric Light - Edison Machine Works
D-81-030 Electric Light - Electric Tube Company
D-81-031 Electric Light - Foreign - General
D-81-032 Electric Light - Foreign - Europe
D-81-033 Electric Light - Foreign - United Kingdom
D-81-034 Electric Light - Puskas & Saportas
D-81-035 Exhibitions - Paris Electrical Exhibition
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D-81-037 Menlo Park Laboratory - Reports
D-81-038 Mining - General
D-81-039 Mining - Edison Ore Milling Company, Ltd. - General
D-81-040 Mining - Edison Ore Milling Company, Ltd. - Accounts
D-81-041 Mining - Mines and Ores [not filmed]
D-81-042 Patents
D-81-043 Railroad - Electric
D-81-044 Science
D-81-045 Telegraph
D-81-046 Telephone - General
D-81-047 Telephone - Foreign - Chile
D-81-048 Telephone - Foreign - Europe
D-81-049 Telephone - Foreign - United Kingdom - General
D-81-050 Telephone - Foreign - United Kingdom - Oriental Telephone Company, Ltd

1881. Bergmann & Company (D-81-001)

This folder contains correspondence and agreements relating to the business of Bergmann & Company, New York City. This company was formed in 1881 when Edison and Edward H. Johnson entered into partnership with Sigmund Bergmann, a manufacturer of electrical equipment. The company produced electric lighting fixtures, sockets, and other devices used with the Edison system of electric lighting. Included is a draft agreement between Edison, Bergmann, and Johnson.

Approximately 70 percent of the documents have been filmed. Routine correspondence relating to the placement and shipping of orders has not been filmed.

Jan'y 8th '81

Mr J. Bergmann
100 North St
New York
U.S.A.

J. A. Edsonburg
Mendocino Park
New Jersey.

Reader, Blake Transmitter.

Those for some time past, furnished the United Company are certainly vast improvements on the originals and appear to be in all respects a satisfactory instrument. Every where I hear loud praises of them and indeed with the advantage they possess, of not being obliged to speak close to them, and their clearness of articulation at the other end, it is impossible to find anyone to say a good for our old carbon transmitter. Now this thing wants looking into. Is it not possible to do something with the carbon button form, which will obviate the necessity of placing the mouth close to. Unless this can be done I feel it a foregone conclusion that they cannot compete with the other forms. They at least not until it is universally recognised from experience - which has not been the case with all the instruments put out for the last few months - that nothing but the firm rigid base carbon button will survive the wear and tear of use. While we concede of course claim that the various forms of transmitters are covered by Edison's patent, yet we must not be behind in adapting ourselves

and opportunities for improvement. It is quite a task for me to attempt to extend the use of what we call the "Edison" against the united opinion of not only everybody in the board, but the subscribers so well. Certainly many of these plate arrangements of the Edison transmitter which speak to me from London over my Newwood wire are more distinct and loud than any other form.

I begin to especially consider this matter and see if there cannot be something done for the Edison Carbon Button, if possible precisely in its present form as regards the carbon but with some adjustment or arrangement which will produce the same results as for as speaking away from it, that we accomplish in the Edison Transmitters.

In a recent letter of Johnson's he proposes an arrangement which he will explain to you for accomplishing the desired result which seems to depend for that purpose upon a 2500 ohm mouthpiece. This may accomplish the desired result, but judging from some adaptation of a large cup mouthpiece, that Rose has arranged I should doubt that that will accomplish the result. What do you think of Rose's double diaphragm plan. He speaks very confidently of it and has made a rough one which certainly so far seems to act very well.

Yours truly,

Don 25 Oct
to Johnson

Copy to above sent to J. Johnson & Edison.

S. BERGMANN,

108-114 WOOSTER STREET,
MANUFACTURER OF

Hotel and House Annunciators and Electrical Apparatus of all kinds.

Edison's Inventions—Photographs, Telephones, Motographs, &c., &c.

NEW AND IMPROVED PRUD'HOMME BATTERIES A SPECIALTY.

New York, N.Y. 7 1881
Prof. T. A. Edison
Huntsville, Ala.

My dear Sir:

I am making
two Dynamometers for Mr. Upton, and
if you will need any of them
for your Central Stations, I shall
be pleased to have your order and
make them at the same time

Yours truly
S. Bergmann
[Signature]

One pint

This Agreement entered into this
day of April 1881 by and
between S. Bergmann party of
the first part Thomas A Edison
party of the second part and Edward
N. Johnson party of the third part
all of the City, County, and State of
New York

Witnesseth the said Bergmann
party of the first part is possessed
of a Manufactory fully equipped for
the manufacture of electrical machinery
at 108 Wooster Street in the City of
New York and is desirous of entering
into the manufacture of ^{special} appliances
connected with electric lighting
and whereas the said Bergmann
also desires more capital to enable
him to manufacture and carry
a stock of such appliances and
whereas the said Johnson of the
third part is entitled to a share
in the profits arising from the
said business of the said Bergmann
by a previous contract and by
this Contract of twelve parts of
each and every dollar which part
of the profits made by the said
Bergmann in the said business

(see sheet 1)

and whereas the said Edison is
 will to contribute the sum of seven
 thousand five hundred dollars for
 the further development of the ~~business~~
 of the said Bergmann as a said for
 which the said Edison is to receive
 forty four parts of each dollar
 of profit earned in consideration
 of furnishing the said sum
 of seven thousand five hundred
 dollars ~~the~~ said Bergmann
 is to receive forty four parts
 of each and every dollar and
 the said Johnson is to receive
 the remaining twelve parts of
 each and every dollar as appears
 It is hereby agreed ^{between the parties} that the said
 Edison shall contribute the
 said sum of seven thousand
 five hundred dollars which he
 shall deposit with Drexel Morgan
 & Co. ^{bankers} of this city for use in the said
 business within in the ^{term} ~~the~~ character
 of a special partner and that
 his liability shall not exceed
 the above named seven thousand
 five hundred dollars and the
 said Edison agrees to use his
 best endeavours to promote the

'Promote'

Subject to
 Bergmann's
 order
 \$2500. on
 signing this
 contract. of
 \$1000 the 1st
 day of each
 month
 until the
 amount be
 named is
 fully paid
 in 4
 2 1/2

said business
 of the said Bergmann as far

any of the
dividend by
March
until the
dividend is
named is
fully paid
in cash
and
no

best endeavours to sell the

'Promote'

business
said ~~applicant~~ ^{business} manufacturer
of the said Bergmann as far
as lays in his power and the
said Bergmann on his part
agrees to use due diligence and
to ~~give his whole time and~~

all regular
time & attention

~~and devoted attention~~ to the said
business and he shall receive
a salary of twelve thousand
hundred dollars a year as
salary for the superintendence of
the said business which shall
in all cases be deducted before
the profits are declared and the
said Johnson on his part agrees
to use his best endeavours and
inventive talent to devise articles
of utility in Electric Lighting
and capable of being manufactured
by the said Bergmann and the
said Johnson further agrees to
use his best endeavours to ~~and~~
~~be caused to be sold the application~~
~~in connection with Electric Lighting~~
~~manufactured by the said Bergmann~~
and it is further agreed that
should the business be closed
up at any time from any cause
whatsoever the said Edison

Promote
the business
of the

shall receive a sum equal
to the amount of the money
he has put in the business
prior to division of ^{any} surplus
there may be

~~And that the said Benjamin
shall receive the same~~

~~Amendment~~

Proposed

Agreement

Samson Bergman

& Johnson

S. BERGMANN,

108-114 WOOSTER STREET,

MANUFACTURER OF

Hotel and House Annunciators and Electrical Apparatus of all kinds.

Edison's Inventions—Photographs, Telephones, Kinetographs, &c., &c.

NEW AND IMPROVED PRUD'HOMME BATTERIES A SPECIALTY.

New York, May 18/ 1881
My dear Mr Edison:

This will introduce
to you Mr. Keas of the Bridgeport House.
From whom I have been buying brass
for some time.

He is anxious to have a talk with
you respecting his business.

Respectfully
S. Bergmann.

Refd him to
you

Lamp Co
BERGMANN & CO.,

108-114 WOOSTER STREET

(BY APPOINTMENT.)

MANUFACTURERS OF EDISON'S INVENTIONS,
EDISON'S ELECTRIC LIGHT APPLIANCES A SPECIALTY.

New York, Oct 12 1881

Mr T. J. Hutton

Munro Park N. J.

Dear Sir

As we are rather short of money
will you kindly send us a check for
our ac. We want 100 lamps for our
own use here, experimenting &c. Mr Edison
says we can get them from you for \$5.-
If that is correct, please send them over
immediately & oblige

Very truly

Bergmann & Co
BKK

Please return

BERGMANN & CO.

108-112 WOODSTOCK STREET,
(BY APPOINTMENT.)

MANUFACTURERS OF EDISON'S INVENTIONS,
EDISON'S ELECTRIC LIGHT APPLIANCES A SPECIALTY.

New York, Oct 14 1881

Prof J. A. Edison.

Dear Sir

Your favor of yesterday is received and in reply I can only say that I acknowledge that there may be some small defects like the dipping of the rings & screws which shall be promptly attended to but as regards the rings not being in true or not making proper contact; I commended Mr Weston who was here yesterday afternoon that the sockets were perfect in that respect and he could not find one in our shop with which to find fault. I think that the fault lies entirely in the weakness of the plugs of the lamps, and the trouble is that the material used in cementing is too much like chalk; and the leverage brought into play in screwing the lamps into the sockets pulls them apart, and not any looseness of the sockets. Further I shall be very glad to have come one here to inspect the sockets and who shall be responsible for passing them. That kind of an arrangement cannot fail to be satisfactory to all parties concerned.

Yours remain

Very Respy Yours -
F. Bergmann K.

BERGMANN & CO.,

106-114 WOOSTER STREET.

(BY APPOINTMENT.)

MANUFACTURERS OF EDISON'S INVENTIONS,

EDISON'S ELECTRIC LIGHT APPLIANCES A SPECIALTY.

New York, Oct 19 1881
Mr J. A. Edison
65 Fifth Ave

Dear Sir

Please send me by train
1 Dozen or $\frac{1}{2}$ Dozen lamps - I wish
to make up a few more like the sample
I showed you this morning and I have
no more lamps. I gave Mr. Repton an
order 3 or 4 days ago for 100 but have
not received any yet. If you cannot
deliver them yourself, please give
him an order to get them from
where in the city & oblige

Yours truly
S. Bergmann
Klein

Sent 6. To Cooper
C. P. Wick

[FROM SAMUEL INSULL?]

Oct. 25th,

Messrs. Burgham & Co.

100 Wooster St. N.Y.

Dear Sirs:--

Any lamps that you may require for experimental purposes must be ordered through the Edison Electric Light Company, as the Edison Company by their contract with the Light Company are only allowed to supply lamps on the order of the Light Company. In ordering from the Light Company, state that you require them for experimental purposes, and that Mr Edison informed you that you would be able to get them at 35 cents.

Yours truly,

BERGMANN & CO.,

108-114 WOODSTOCK STREET,

(BY APPOINTMENT)

MANUFACTURERS OF EDISON'S INVENTIONS,

EDISON'S ELECTRIC LIGHT APPLIANCES A SPECIALTY.

file

New York, Dec 19 1881

J. A. Edison Esq

65 Fifth Ave. N.Y.

My Dear Edison

In relation to the sockets
at Vanderbilt's house which, Mr
Vail complained, did not fit, I
find that the variations are all in
the lamps and not in the sockets.
I think it would do away with
more than half the complaints
about our sockets if the lamps
were more carefully inspected be-
fore leaving Menlo Park -

Very truly yours -
J. Bergmann.

Mr Edison has seen this
letter - & -

S. BERGMANN,

108-114 WOOSTER STREET,

MANUFACTURER OF

Hotel and House Annunciators and Electrical Apparatus of all kinds.

Edison's Inventions—Photographs, Telephones, Kinetographs, &c., &c.

NEW AND IMPROVED PRUD'HOMME BATTERIES A SPECIALTY.

New York,

188

~~Whose~~ ~~Manufacture~~ shall constitute a
 separate & distinct branch of the ~~business~~
 business of the said Bergmann and
 for the sake of clear distinction ~~of~~
~~for the purposes of their contract~~
~~for between their special business and~~
 the regular business of the said Bergmann
 the aforesaid appliances are hereby
 specified as constituting any & every
 article now desirable or which shall
 hereafter be found desirable to
 Manufacture in advance of the demand
 and to carry an ^{stock} supply ~~of~~ ready for
 immediate delivery on sale - such
 for instance as small pictures, lamp
 sockets, switches, safes, catches, shades,
 etc. &c. ~~It being understood that~~
~~the said new articles as here~~
~~hereafter be found~~

[INCOMPLETE]

1 p m o n s e
2 2 y . y - p y e i s
1 d

1881. Deafness (D-81-002)

Following the appearance in early 1878 of articles about the phonograph, which drew attention to his own deafness, Edison began receiving inquiries about his proposed invention of a hearing aid. (See Thomas A. Edison Papers Microfilm Edition, Part I, 1513-166.) This folder contains correspondence inquiring about the current state of the invention.

Approximately 20 percent of the documents have been filmed. These items received significant replies or were written by individuals associated with Edison.

40.

Enquiry about Audiphones

Ans'd 4/9/81

(H)

Audiphones
Mch 4.81

Wm. Bratt

Gen. Pals Warren Co. N. Y.
March 4th /81

Prof. Eison
Hein. Lin

Would you
spare me moment from
your many cares, to read
this short - personal? I
noticed a communication
from you about a - year
ago, that in your investi-

-giving you to a deafness long deafness means
a measure of suffering & accident would suit
unconscious sound, and and as it is not I
where you had leisure you lived in perfect silence
-let for the sake of love from your pen, & if
deaf humanity" heretofore you had written I get
a small article which could be used as a letter
be worn in the ear, and every for such purposes
if I am not mistaken I have written
you received an Agaphone and would like a

Being a sufferer from noise in reply.

Deafness has patiently

waited hoping for even

less of your perfecting

push an article & but

as time flies away and

I dropped

Expecting a that

subject to take up N. G.

the Light to Ele

Mrs M. S. Pratt

Glen Falls

N. Y.

THE CHICAGO TRIBUNE,
EDITORIAL ROOMS.

top
Audiphon
Recommending an ear trumpet

CHICAGO, *March 6* 1886.

100-110
Mr. Thos. A. Edison.

Dear Sir,

A Couple of years
ago you were making some
Experiments on an audiphon
or ear trumpet, but switched
off on electric light and
dropped I suppose.

Whenever you want to
reinvestigate the subject
you will find better
prints in North's instru-
ment than any now in
use. If you have not
got it, I would advise
you to send for one of
the No 1 earphones. It is
the smallest size. You
will derive much benefit
from its use, as I find
every day, and it is

may afford you hints
by which it can be im-
proved.

The next thing for you
to do in the electric line
is to invent a better and
cheaper insulated wire
for underground use.

There are altogether too many
wires in the cities strung
on poles and stretched
over house tops. They have
become an intolerable
nuisance.

Respectfully yours,
A. M. Medill.

218 NORTH SECOND STREET, PHILADELPHIA, May 15, 1880.

Mr. S. North:

I was in Washington yesterday, the 14th, and saw your model Earphone in the Patent office. It did help my hearing. I have been deaf for many years, and can't hear my watch tick. I desire to get one. Good price.

Yours, JOHN SMITH.

320 WEST GRACE STREET, RICHMOND, Va., June 11, 1880.

Mr. S. North:

I would say that I am very much pleased with the Earphone. Miss TURPIN, Teacher in High School.

SAN FRANCISCO, June 21, 1880.

Stephen North:

DEAR Sir—Earphone received in good order and it appears to be all I expected and satisfactory. Will try it at a meeting tonight and will write.

Respectfully, MATTHEWS.

Stephen North:

The Earphone is a mechanical device.

Yours, MATTHEWS.

GRAND UNION HOTEL, KALAMAZOO SPRINGS, July 27, 1880.

Mr. Stephen North:

DEAR Sir—Yours of yesterday asking for testimonials, received. I unhesitatingly and cheerfully say that in my case your Earphone is vastly superior to all other forms of trumpet that I have been able to find. With its aid I have much pleasure in listening to the band now here, when hitherto the band drum was all there was for me. I currently receive of a trial. I hope you will soon be able to place them in the great number where its benefit can be recognized.

Truly Yours, SILVUS H. KAYSON.

POCAHONTAS ROAD, DUMFRIES, N.Y.

311 K. EMITT-FIRST STREET, NEW YORK, Aug. 17, 1880.

Mr. Stephen North:

With the aid of your Earphone I can hear and understand perfectly, and my son thinks it a good invention, for he could not speak in the without saying so that the neighbors could hear everything that was said. I hope you will prosper with your great invention.

Yours Truly, EUGENE DODSON.

If your Druggist does not keep them, or if there are no Agents in your vicinity, address the inventor,

AGENTS WANTED.

Please state in what Paper you saw Advertisement.

If you have any friends that are deaf

please hand them this

SEND STAMP FOR REPLY.

Prof. S. NORTH,

Office 5 MEXICO BLOCK, - SYRACUSE, N. Y.

NORTH'S EARPHONE.

A Wonderful Device for the Relief of the Deaf.



PATENTED MAY 4th, 1880.

Sent C. O. D. with privilege of trial by paying ex. press charges both ways, or free on receipt of 'ricon. The No. 2 instrument is the one used most.

When first with three different sizes of Small Instrument, \$1.00 each. Talking extension-free.

The EarPHONE enables the deaf to hear in a clear, distinct, natural tone, free from those monotonous sounds emitted from other instruments. Ordinary conversation heard without the speaker being close. It works successfully in most cases at forty feet distant, and in others more, its power is remarkable and gives entire satisfaction.

The EarPHONE brings into requisition the tritachal nerve, which passes over the temple and cheek to the upper teeth by a telephonic communication with the inner ear. The principle involved in the EarPHONE are the refinement and compression of sound, and mucus have been discovered by which the sound can be refocused from 100 to 20,000 times, thereby giving them to the different degrees of Deafness.

What spectacles are to those having but slight the EarPHONE is to the Deaf.

The inventor has been deaf from childhood, and it was in seeking relief that he made this important discovery. No injury can possibly come from the use of the EarPHONE, but a perceptible benefit in the natural hearing is often experienced by its use. It takes off the continual strain on the organs of the ear, thereby benefitting them. It also has a tendency to stop all noises in the head. Out of hundreds that have used this instrument but ten per cent. could not find relief, and in those cases the auditory nerve and facial nerves were paralyzed. The EarPHONE is made of metal and is indestructible, and finished in bronze and nickel. They are light and attractive, and can be carried in the pocket, so as to be always ready for use.

Full-size cut of No. 1 on envelope.

187 Extracts from *Hearings and How to Keep It*, by Charles H. Burnett, M. D., Consulting Aurist to the Pennsylvania Institute for the Deaf.

"There are many aches, however, who from the favorable nature of their deafness, are obliged to struggle to obtain a hearing trumpet. Such an aid is not only an advantage to them, but a great benefit to their friends, so it were the better a patient could do full. Properly used, all instruments of any value must be placed upon the ear, from the nature of acoustics, have a certain size, otherwise self-correction, hence, all horrible devices."

188 DIRECTIONS.—Place the rubber cup-plate in the ear the same and it is too hard, bring the bell part to bear against the temple and or over the ear, forming a telephonic communication with the inner ear, to use the outer ear, thereby assisting the ear to without effort—first place the screen over the stationary one and the ring over that, try it, and then place the other on, testing all at once, then you are left with noise less.

To clean the rubber cup-plate, wipe with alcohol.

189 Directions to persons solving the EarPHONE—Please answer the following questions—

1. How long have you been deaf?
2. What changes from the ear can you hear ordinary conversation?
3. Cause of deafness, if known?
4. Are you troubled with noise in the head?
5. Can you hear best in the ear?
6. Can you hear a loud-coming watch tick when pressed against the cheek bone or forehead?

190 If sufficient inducements are offered, the inventor will go and examine patients in any part of the United States or Canada.

EXTRACTS FROM A FEW TESTIMONIALS.

22 FAYETTE STREET, SYRACUSE, March 22, 1880.

Mr. Stephen North:—Dear Sir—By the aid of your EarPHONE I am able to hear and understand perfectly, conversation in a room of voice the sound of front three times for trumpet and other appliances, which I have not before. I have not been able to hear anything until I obtained your EarPHONE, and I am truly thankful. I hope that besides the satisfaction of the largest and good of others, you will realize a pecuniary benefit connected with the use of your invention.

Yours Truly, E. H. CULVER.

20 GIFFORD STREET, SYRACUSE, March 26, 1880.

Stephen North:—Your kind notice, regarding about the EarPHONE I procured of it last year also to be used, in regard I would say that by the use you are able to hear distinctly in church, which I have been able to various degrees, but have never received any benefit whatever until I procured your EarPHONE, and I hope that besides the satisfaction of the largest and good of others, you will realize a pecuniary benefit connected with the use of your invention.

Yours Truly, JOSEPH M. BOWMAN.

~~Exhibit~~
Eindhoven, October the 6th 1881

Gyds (Deafness)

To Edison, Esq
in North-America.

Ans
Sir.

Having seen in the Newspapers,
that you are capable to do many
inventions, I take the liberty to
beseech you to make any good in-
strument for deaf men to do them
hear and understand human
voices, etc.

I cannot understand them since
the last years. I have always a
noise in my head, much harder
than a human voice. As something
is louder than this noise, for exam-
ple, a drum, then I can hear it.

Also when I go by railway, I can
hear the noise of the wheels.

When I let fall a piece of money,
I can hear it by feeling the shake on
the floor. I can feel too, that a
waggon passes by, without seeing it.
When I tie a silver spoon to a

thing, and I hold the ends in my ears, when I push it against the table, I can hear the sound a little. I am now 56 years old. There are many deaf men in the world; thus you should do us a great service, if you would invent some instrument for men, who are, as I, badly deaf. For those, who are half deaf, there are already some instruments, that help them a little. If an instrument, made by you, comes in the trade, many a deaf man or woman should be as willingly, as I to buy one. I see also, that men with a good hearing have some trouble to hear each other on a journey by railway, by the noise of the wheels on the rails (~~of iron~~). Perhaps you

can make an instrument to help the human voice to be much louder than usually, when one speaks by it to the ear of another or to an ^{other's ear}. Excuse my liberty, and think upon it, if you please.

I am, Sir, respectfully.

Your obedient servant,

J. J. Leijde,
Book-keeper,
at Eindhoven in Holland.

[FROM SAMUEL INSULL]

Oct. 25th,

J. J. Lyde, Esq.

Amsterdam, Holland.

Dear Sir,

Referring to your favor of the 15th inst.

Mr. Edison experimented for some time on an instrument

for the use of deaf people; he has however, suspended

his experiments in order to take up the electric light

He will no doubt return to the subject at some future

day, as he is quite alive to the importance of it, he

being himself somewhat deaf.

Yours truly,

Secretary.

1881. Drexel, Morgan & Company (D-31-003) [not filmed]

This folder contains correspondence about routine financial transactions undertaken by Drexel, Morgan & Company for Edison or his companies. Material relating to Drexel, Morgan & Company's role as a financier of Edison's electric light and telephone ventures can be found in folders on those subjects.

1881. Edison, T.A. - General (D-81-004)

This folder contains documents, primarily correspondence, covering a wide variety of subjects. Some of the material relates to personal matters. Also included are documents that deal with more than one subject, such as a letter about both the electric light and the telephone. Documents concerning subjects that do not fall under the main subject categories are also filed in this folder.

Approximately 90 percent of the documents have been filmed. Duplicate copies of correspondence, third-party correspondence unrelated to Edison, and unanswered fan mail have not been filmed. Unsolicited requests for personal favors, for loans and exhibits of inventions, and for information about Edison have not been filmed except in cases where a significant answer has been found. In addition, there is a nine-page letter from Samuel Insull to George E. Gouraud, dated April 29. Most of this letter is illegible, and it has not been filmed.

J. C. REID

No. 52 BROADWAY,

New York, Jan'y 2nd 1881

My dear Sir

You don't know
how much I wish to see you
but I know it would greatly
gratify you if when I come
I can clear a pocket of getting
old affairs tied up.

I have had the interview with
Mr. K. at his house.

He said after hearing me that
it looked as if I had been
very unfairly treated & that
as he was concerned somewhat
in immediate personal interest
in having everything harmonious
adjusted -

He says he proposes to be independent
of Prescott & all others -

He asked for a plan & terms
which I promised today -

I have sent him memo of form

has more as he is satisfied
with that since till in
the Probation office
come out to see you -

~~Harry~~ get the telephone
for London.

The great disadvantage they
take with is that Bell
people can furnish
instruments & E.M. Hinton
has been unable to do it.
I trust my package
will duly be sent.
Happy morning.

V. J. Schiff

Where is L. D. D.?



John H. Porter
Cashier of Levee.
Gen. Walter Bann.
Capt. Francis Shaw.
Gen. S. Hamilton.
Wm. L. Porter.

P. O. Box 1836.

Porter, Levee, Leroy & Stone.

Attorneys & Counsellors at Law.

No. 3 Broad St. New York.

Jan 3 1887.

Dear Mr. Griffin. I make you a new
year present of the information that
annual reports are required by law to be
made by all your Companies except Union
the Light Co. of Levee. &c. on or before
January 1st. 1887.

You should also look over all your
Companies & see when the payments
of their Capital stock are to be completed.
Some of them. Certainly the one requiring
& making require obtain part of the
Capital to be paid during this month.

Let me receive your favor bill
for disbursement. still unpaid.

Yours truly
Leroy.

Files E.H.
TO
Mr. J. A. Edison
Mento Park
U. S. A.
FROM
Jan 4 '84
WILLIAM CROOKES,
7, KENSINGTON PARK GARDENS,
LONDON, W.

Dear Sir: I am in receipt of your favor of the 15th of December last suggesting that some mutually advantageous arrangement might be made respecting my readimeter patent whereby we might each derive a fair income from the sale of these instruments. Some years ago I placed the entire matter in the hands of Messrs Ritchie & Co of Boston and although their trouble & expenditure of time never bore any fruit the reason was their want of facilities for making the instruments at a sufficiently low price. There is no definite contract between them and me but as they too have trouble in the matter I feel bound in

honour to give them an opportunity of
deriving a little profit, allow me though
to refer you to them from my knowledge
of the firm I have no doubt that I
shall gladly endorse any arrangement
which you and they may make.
Wishing you every success in your
numerous undertakings

Believe me
Very truly yours
William Crookes.

Wm Crookes
Jan 14 1887
Electric Light
Works

[POSTMARK: JANUARY 5, 1881]

Monellans
1881
New York Academy of Sciences,

No. 12 West 31st St.

MONDAY EVENING, JANUARY 10, 1881, at 8 o'clock.

The following lecture is announced, By Dr. GEORGE M. BEARD.

TRANCE (so called "Hypnotism" or "Somnambulism"); its Nature, Symptoms and Varieties,—with special reference to Mesmerism TRANCE.

The phenomena of Catalepsy, of Ecstasy, of Rigidity and apparent Death, of partial and hemi-anesthesia, of Aphasia, of suspension and exaltation of Mental and Muscular Forces, and of all the Special Senses, of Trance Speaking, and also of the Maine "Jumpers", will be experimentally illustrated and explained.

These experiments will be conducted on a class of human subjects that have been under Dr. Beard's training, and with especial reference to the errors of prominent European observers.

J. S. NEWBERRY, President.

Copy over & send the files

MEMORANDUM.

From
D. DE CASTRO & CO.
No. 84 WILLIAM STREET.

NEW YORK, Jan. 5th 1889

T. A. Edison Esq.,
Menlo Park, N. J.

Dear Sir:

Please send us, as soon as possible, if you are the inventor, all informations about the Megaphone; you will oblige us very much if you send them before the 4th inst.

Yours truly
D. de Castro & Co.
H. B. Coombs

The Megaphone is a
very large instrument
for talking a mile
away - probably you
refer to an instrument for
the deaf - I have not had time
to perfect it so as to
be able to introduce
it commercially

✓
London Jan'y 7 81
W Fraser Esq
a Jan'y 19-81

I could not make it out at
all why you didn't come. I
had the boys here on the watch
to let me know when you came.
I have the letter of all right now.
I have the letter of all right now.
There are 450. burning & they are
disappointed Mr Edison.
We are making the
machines for lightening & are
Many apologies for not having
written you earlier & not having
expected sooner why I did
not pay my promised visit to
Mundo Park. No one regrets this
more than I do, & I hope that a
visit to you, before returning
home, was one of the things I
looked forward to during my
visit to your country. Unfortunately,
however, I received a child when
at West & when I left I was
tired I had a husband & my
gruff & unrelenting strength.

through. From day to day,
I hoped to get as far as
Mend Park, but I was
unable to do so. My throat
& chest still trouble me,
withstanding the sea voyage;
but then the voyage was very
unpleasant & the weather
very cold.

I shall watch the
progress of your light with
my accustomed interest &
I hope to see it here at
no distant day. It seemed
to me now that the problem
is practically solved.

With hearty good wishes,
Believe me to be
Truly yours
H. Fraser Rae.

J. A. Edison Esq.



Directors:

Charles McShannon, John McLaughlin,
William Thomas, & Charles Humphrey.

Middletown, Orange Co. N.Y. June 11th 1881

Thos A. Edison

Menlo Park N.J.

Dear Sir

We understand you
have in use in your Shops the Babcock & Wilcox
Boilers.

Will you kindly give us your opinion
of the merits of same, as compared with others.

Yours very truly
Wheeler Mudden & Clemson Mfg Co

My experience in Boilers is limited
but I purchased the B & W boiler
after my Engineer has made a
considerable investigation. We have
had it 2 years and never had any
trouble - it is perfectly satisfactory
to me —

CONTRACT
Concerning TELEPHONIC
Signalling Apparatus

Thomas A. Edison,
Chester H. Pond,
James U. Mackenzie.

Jan'y 12/81.

MEMORANDUM of AGREEMENT

made this twelfth day of January 1881 by and between
Thomas A. Edison of Menlo Park, N. J. of the first part
and Chester H. Pond of Brooklyn, N. Y. and James U.
Mackenzie of Menlo Park, N. J. of the second part,
WITNESSETH:--

Whereas said Edison of the first part has
certain exclusive rights to use "Pond's Visual Indica-
tor," so far as applicable to Telephone uses as secured
and provided in a written contract between said Edison
and Pond said contract bearing date of the eleventh day
of August 1880, and

Whereas it was provided by such contract that
that said Edison was to develop said invention paying
all of the expenses of introduction and otherwise for
Telephone purposes, paying over to said Pond one-third
of the income therefrom.

Now Therefore the said Edison hereby
agrees that he will and does hereby surrender to the
said Pond and Mackenzie parties of the second part the
entire matter of developing the invention above referred
to, so as to make it applicable and desirable for Tele-
phonic use and its introduction, by sale or otherwise,
as they the said Pond and Mackenzie may think best.

The said Edison also agrees that all apparatus

which has already been constructed under said contract of August eleventh 1880, shall be and is hereby turned over to the said Pond and Mackenzie for their use in carrying out this agreement.

In consideration of the said Edison making this grant and surrendering of the business herein indicated to the said Pond and Mackenzie, they hereby agree that they will proceed at once to use their every effort to perfect said invention so that it shall be applicable and desirable for Telephonic use and to make every effort to secure its early introduction, by sale or otherwise, and to pay each and every expense from this date forward, and faithfully and promptly account for and pay over unto the said Edison one-third of the net proceeds derived from the business herein contemplated, they the said Pond and Mackenzie retaining the remaining two-thirds which shall be divided equally between them.

It is also mutually agreed and understood between the parties hereto that this agreement shall be of force and binding in all of the United States of America and in the Dominion of Canada only.

IN WITNESS WHEREOF we hereunto set our hands and seals this twelfth day of January 1881

Nelson S. Howell
Witness.

Thomas Edison
Charles T. Pond
Samuel Mackenzie



Thos A. Edison
Menlo Park

When are you again coming
to town important for me to
see you aneuer.

17 po Ro

Fred W. Jones.
62 Cedar St.

ALL MESSAGES TAKEN BY THIS COMPANY SUBJECT TO THE FOLLOWING TERMS

[illegible]

passage by contract in writing, stating agreed amount of risk, and payment of premium thereon as the following rates, in addition to the usual charge for repeated messages, viz.: One per cent for any distance not exceeding 1,000 miles, and two per cent for any greater distance. No...

Members will be delivered free within the scheduled free delivery limits of the carrier. For delivery at a greater distance, a special charge will be made. The carrier's charges will be accepted at the time of the transmission of the message and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.

The Company will not be liable for damages in any case where the claim is not presented

A. R. DREWER, Secretary.

NORVIN GREEN, Resident

Sent the following message, subject to the above terms, which are agreed to

To Mr. J. H. Brown

of Mr. E. (Mr. Campbell) but
from 1890 to 1891
and night of September 1891
11/18/91 W. L. Williams

READ THE NOTICE AND AGREEMENT AT THE TOP

5-
NY 19 Jan 19 51
J. Aldison

You will be asked for name
off book your interpreter read from
to my friend and myself when
we were with you Monday.

Please decline to give same
unless the information goes
through me I will see you
tomorrow will you be in the
city in the morning Confidential

Fred W Jones
27 W 50

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on condition, binding its liability, which is not assumed by the sender of the message, except in the case of a message sent by the sender of the message, and the Company will not be liable for error or delay in transmission or delivery of the message.

This message is an UNRECORDED MESSAGE and is delivered by request of the sender, under the conditions stated above.

A. B. BREWER, Sec'y.

NORVIN GREEN, President.

Dated N.Y. Jan 20 1887

Received at N.Y.

To T. W. Edison

READ THE NOTICE AT THE TOP.

Will be out
to meals early this
afternoon

S.B. Eaton

Special

My dear son
T. B. Lowrey
April 21

Private

The Herald.

New York, Sunday 20. 1881

My Dear Edison

Your very kind letter reached me today. As to the matters mentioned therein, I will have something more to say when I see you at Mable Park, which I hope will be soon.

I have had a little boy very sick, and have been kept so close as to be unable to accept your invitation to go out to the Park. In a

few days I hope to be more
the master of my time,
and if it wont inconvenience
you I will take a trip to
the Park accompanied by a
few ladies who are anxious
to see the light and other
wonders of your laboratory.
I will telegraph or write
you the day before.

In the meantime ac-
cept my thanks for your
extreme kindness and
courtesy on all occasions
Yours
Thomas H. Morrey

John H. Porter,
Governor of New York,
Gen. Walter H. Hays,
Flat House, New York,
Gen. S. Hamilton,
Wm. L. Porter.

P. O. Box 1836.

Porter, Levey, Torrey & Co.

Attorneys & Counselors at Law.

113 Broadway, New York.

Jan. 20th 1891.

The agreement of May 2nd 1879, after reciting

that Edison has 30-60; Puskas 27-60 and Bailey 3-60 in the ~~the~~ U. S. interests for Europe, agrees that these parties would transfer to Banker 10-60, so that the shares, after Banker came in, should be Edison 30-60; Puskas 17-60; Banker 10-60 and Bailey 3-60.

(1.) Has Edison ever, by any instruments, *holding* made assignments of any of these undivided interests to Puskas, Bailey or Banker. (2.) Have Puskas or Bailey, or either of the others, any interests in Electric Light inventions of any other ^{no} person ~~than~~ Edison; for which patents have been applied for in any European country.

If they have any such, they are bound to turn them in to the Edison E. L. Co., of Europe, under provisions of their agreement of May 2nd 1879. *got none*

Will you do your best to get answers to these questions? I will try also.

Mr. Griffin
The papers I have drawn for the Northbrook matter are here, ready for execution by Edison & Banker. I don't propose to send them out again, & I don't propose to send them out again.

N.Y. Jan'y 20-1891

G. W. Soren

Agony 25. 81.

Jan. 26th 1881

Mr. Loren

Yours to your favor of June 10 - I
 have carefully examined the Chinese
 papers and can find no reference to
 any accusations of any of the undesired
 interests of the C. & O. to Hubbs, Bailey
 or Shanks - indeed the only paper on file
 relating to the subject is the contract of
 May 27th of which you have a copy
 dated June 1st 1864. Neither Hubbs
 or either of the others have any interest in
 C. & O. investments of any other person
 than themselves.

George Town

For a fine time
Hoffman

~~depend to leave his own~~
Don't in my case ~~depend~~ at any time
Mr. Colson looks ~~Radum~~ ^{will be here}
file ^{ready} ^{Heard}

We have received your letter
favor and also a letter from Mr. Crocker.

It will give us pleasure to confer
with you in the subject and it may be
most convenient by a personal interview.

Our S.D.R. intends to be in New York
about the 1st of Feb. would it be convenient
for you to meet him there, or some other
day soon after? Please reply and we
can if agreeable to you arrange a time &
place for interview.

Yours very truly
Wm. R. H. Jones
E. S. Putnam

Boston Jan 21, 1881

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

The Company TRANSMITS and RECEIVES messages only on conditions, limiting its liability, which have been inserted in by the master of the transmitting message.

The Company will not be held liable for errors or omissions in the transmission or delivery of messages, and the Company will not be held liable for sending a message back to the sending station for comparison, or for any other reason.

The message is an UNREPEATED MESSAGE and is delivered by request of the sender, under the conditions stated above.

A. D. BIRCHALL, Secy.

NORVIN GREEN, President.

Dated N.Y. Jan 24 1881

Received at M.H.

To J. A. Edison

READ THE NOTICE AT THE TOP.

Obliged postpone
visit till Wednesday
same hour.

Convery

Spaid

OK

NEILSON P. EVANS,
General Manager
H. H. KENNEDY,
Secretary

No. 138 South Fourth Street

Philadelphia, Janus, 215 188

Dear Sir

It has been reported to us that you have a new method of making Chlorine by electricity. If we have been correctly informed we would be obliged if you would communicate with us in regard to it, as we are interested in our new air that live, & ready to purchase the right to use whatever will be an advantage to us,

Respy. Yours

To
 Thos. A. Edison Esq.
 Menlo Park
 N. J.

Henry A. Kennedy

Yes

4221. I had a few more
striking Calceolarias
Arrangement & wire-
F. W. H. Concentrated

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which have been accepted by the sender of the following message. The sender agrees to indemnify the Company from all claims for damages, in the sending status for completion, and the Company will not hold itself liable for errors or delays in transmission or delivery of messages.

The message is an UNREPEATED MESSAGE and is delivered by request of the sender, under the conditions stated above.

A. N. HINCHMAN, Secy.

NORVIN GREENE, President.

Dated New York Jan 26th 1881

Received at W.H.

To Prof Edison

READ THE NOTICE AT THE TOP.

Will go out with
your thirty train with
party of four if convenient
to you

Conroy
15 pairs

T. A. EDISON,

Menlo Park, N. J.

July 26 1886.

Connerly ny Herald
NY

All right
Edison

paid
Copyright

NY Jan 26 41
L. G. S. Herman
Jan 29 81

Train leaves at 4:25 pm
from Courtlandt Street ~~to~~ leave
Hudson on Return at 6:20 pm
You may name your own day ~~but~~
advised ~~any that is desired~~
60.7 - ~~American~~
Public days are every Thursday therefore
any but these days would be better.
New York, Jan 26 - 1881
~~It is with regret that the members of~~
Thomas A. Edison
~~the committee of the committee of the committee~~
Dear Sir.

The Executive Committee
of the United States International
Commission, accepted your invitation
with thanks, & appointed me a com-
missioner to inform you of the fact.
General Grant would like to visit
New York, but his engagements
will not permit. I cannot say, how
many of the Committee will make the visit.
Part of you will designate the day,
& the hour of hearing, I am Commissioner
to the Committee. I suppose in

will take one of the regular trains, leaving
here at 4 P. M. Please inform me as to
transportation to you & return.

As soon as I hear from you, please send
invitations to the Committee and be
issued & we will then know how many
will go. I thank you for a personal invitation.

Respectfully, Louis.

J. P. Newman

GEO. H. B. JACKSON, President.

Form M. C. 25.

PAYSON TUCKER, Superintendent.

Maine Central Railroad Company.

Brunswick ^{Cumbe Land Co} Station, Maine
Jan'y 26th 1881

Thos. A. Edison Esq

Dear Sir -

You may perhaps

remember me as an operator with you on night duty when you worked at the Key in Boston and will pardon me for troubling you with a question -

I am using between my office and house (distance $\frac{1}{2}$ mile) a telephone consisting simply of a piece of drum head and No 20 copper wire. It works admirably -

The question I wish to ask, am I infringing upon any patent? I am told that there is and can be, no patent on the drum head diaphragm -

Of course I don't wish to infringe upon any patent you or others may have, but if it is not an infringement I shall be glad to continue its use -

With pleasant remembrances

of our former acquaintance ~~of~~

I remain
very truly yrs

Henry W. Wheeler.

Kind Regards to Mr. Upton if you please.

Barnwick St. Wines
H W Wheeler
August 18-81

Jan'y 28 1881
4 PM

Mrs
J. A. Edison

Please return package
sent to you today after
you have read it
Connelly

Paid

J. HOWELL HEARS, M. D.,
President.
FRANCIS W. KENNEDY,
Treasurer.

NELSON P. EVANS,
General Manager.
H. H. KENNEDY,
Secretary.

THE MEARS CHLORINATION COMPANY,

No. 198 South Fourth Street.

Philadelphia, January 29, 1881

Dear Sir

In reply to your favor of 26th Inst.
we would say that our object in
writing you a day or so ago. was to
ascertain if you had a success of
manufacturing gaseous chlorine by
electricity, or in any way different
from the ordinary method.

To Mr. A. Edison Esq.
West Hudson N. J.
We have
not yet
received
your
reply.
Yours
Very
Respectfully
H. H. Kennedy
Secy.

John K. Porter,
Cassius W. E. Loring,
Geo. Walter Horn,
Chas. Francis Stone,
Geo. S. Hamilton,
Wm. L. Porter.

P. O. Box 1836.

^{One Million}
Porter, Loring, Stone & Stone, 1881
Attorneys & Counsellors at Law,
163 Broad St. New York.

Jan 31 1881

L. L. Griffin Esq

Dear Sir

Your favor of this date recd and
contents noted.

To my knowledge the only annual report filed
is that of the Ore Milling Co.

Those of the other companies should certainly be
filed without delay.

You may remember that I sent to you forms for that
purpose some time since.

The new directors of the Ore Milling Co are Geo. A.
Edison, Jos. H. Barker, R. L. Cutting Jr, C. C. Lewis, W. S. Perry,
R. L. Cutting, Walter L. Cutting, L. L. Griffin and Frank
McLaughlin.

Very Resp
R. W. Brown

Editorial Department
Herald Office.
Feb. 2, 1881.

Dear Mr. Edison

I should like
to take my wife out to see
the light some evening soon,
when Miss Connerly would
accompany us. Might I ask
you to drop me a line saying
what evenings the lights are
on, I want to show them all
the wonders, and would
be much obliged if you
will give us a chance to look
all over.

Yours faithfully
Joseph E. Clarke

will be let up next Tuesday and
any of these days will suit me

Mr Thomas A. Edison
Dear Sir

Barrett
noted
1881

I was prevented from
coming to New York this week but was
about to leave on Monday and
I will go to see you at Menlo Park
on Tuesday or Wednesday

Very truly yours

E. J. Ritchie

Robert D. 2/1881

file
OK

Adresse Telegraphique
"BEBIAN"

New York.

Havre.



P.O. BOX 4327.

Louis de Behn

New York, Feb 3rd 1881.

Thos. A. Edison Esq.
Menlo Park New Jersey.

Dear Sir,

Your relative to the introduction of
your Quadruplex system of transmission in
Havre is at hand & has been referred to
Mr. Peirce in Paris France.

On the 13th of December last I wrote
you making inquiry as to the price of
the steamer on which your Electrical lamps
had been introduced & also as to the cost of
said introduction. You will greatly oblige
me by an early answer.

Very truly yours,

L. de Behn agent
for Ed. Prevost

The first steamer where ~~long~~ my system
was installed was on The Columbia of the Oregon
Steam Navigation Co, since that time we have
perfected our system of lighting steamboats
so give you a rough idea as to cost I will state

10 cents per
hour for
the light

That the Cost of plant will be about \$2800
 This is the actual Cost, a yearly royalty
 will be required by our Company which
 will be based on the saving to the Steamship
~~Company, than their own lighting~~ Co between
 the Electric system of lighting, and lighting
 by gas; we guarantee satisfaction,

Tracy

729

Would be pleased to have you or
your friends come to mena park

on Wednesday or Thursday night
of any week we have 8 miles of
lyats burning away houses

7.

The first station was at the
The Colman's Point, where the
The Colman's Point, where the
The Colman's Point, where the

Ms. A. 9.2.81
Touche & Fabian
in King St. St.

Rufus Hatch & Co.
47 Exchange Place,

New York, Feb. 10 1881

Mrs. A. Edison Esq.
65 5th Ave. New York,

Dear Sir,

Yours of the 8th inst. is at hand.
I have a dinner party on Friday evening
next that I had forgotten when I wrote you.

Can you make it Saturday evening
instead? If not, we will have to make
it, at your appointment, for some evening
next week.

Can't you come up to my house (42 Park
Avenue) this evening at 8 o'clock and
listen to some good music, as it is my
evening at home. Ada Greeley is coming.

Yours truly
Rufus Hatch

E.

New Haven $\frac{12}{12}$ '81.

Is your microphone
manufactured for sale, if
so, what are the terms?

Is it patented?

I want one for some
experiments there is none
connected with the Yale
College apparatus.

H. J. Bacon

Addr. Norwich

Conn.

Say that it is made
by National Bell Tel.
under license

J. H. Clarke
Oct 13. 81

Herald Office
Feb. 13. 1881

Dear Mr. Edison

The storm prevented

me from taking the ladies
out last Thursday. We
shall (God Probs permitting)
go out on Tuesday after-
noon, unless I hear from
you that there will be
no electric light exhibition.

Yours faithfully
J. H. Clarke

18 A. H. CANNED
STREET, N. Y.
OF BROADWAY, N. Y.
STREET, N. Y.

11
Railroad and Municipal Bonds
AND MINING STOCKS,
And Dealer in
ALL KINDS OF SECURITIES.

(1 p. 10)

New York, Feb 10th 1884.

Mr A Edison Esq
Mead Park N. J.

Dear Sir

I would like to
confer with you on an interesting
matter of great importance
and profit in which you
are supposed to be more con-
-versant than any other man

Be kind enough to signify
when and where I may see
you. and oblige

Very truly Yours
A. H. Cane

at 69 5th ave any
day

Toronto Ontario ^{July 19 1887}

N A Edison

Wrote you again
this morning regarding
Toronto gas business

Lewright

T. A. EDISON.

Menlo Park, N. J.

24 Feb - 1889

My dear Mr. Edison

New York
D. A. Davis

can. He Hopkins
and will get a central view of
~~important~~ of factory and improvements
if we come out this evening.

Respectfully,
Geo. B. Smith Jr.

G. B. Prescott Jr
Feb 24/87

Received -

Mr Edison not being
here, it was sent
to him in New York.

T. A. EDISON,

Detroit
~~Monte Park, N. J.~~ *Feb 25th* 1888.
Mich.

J. A. Edison:
Ordinance
passed full council, unanimous
vote, return next week —
reply — Mackenzie

T. A. EDISON,

Toronto
~~Monte Park, N. J.~~ *Feb 28th* 1888.
Ont.

Edison —
Will return this week
with committee from
Detroit, who expect a warm
reception
Mackenzie

ODESSA, 27/29 February 1881.

N/V
Mr. T. A. Edison.

Menlo Park, N. J.
America.

Dear Sir,

Your favour of the 19th January
I have duly received, thanking for the kind
attention.

Sending herewith five pounds & 5 shillings
for two drawings, about which I have asked
you, for the remaining sum I beg of you to
send me your improved Telephone or some
other article of your invention, as also
a catalogue, as I wish to introduce them
in this country.

Lately I read in the newspapers
that you invented an electric carriage on
three wheels, be so obliging to inform about
the particulars with price, so that I may
send you the money. I remain, Dear Sir,

Yours most respectfully,

A. Makarowitch.

P.T.O.

As Director of the five pound note, I beg of you
to oblige in your mind. I hope to receive
from your favourable answer. Yours A. M.

Address: A. Makarievitch

Deribas Street

Prince San Lorenzo N° 1

Quarters N° 18.

Odessa

Russia.

P. H. DAWES, Sec'y.

AGENCY OF

JAMES M. PATTERSON Pres't

The Germania Insurance Company

NEWARK, N. J.

Post Office Memo. Post. No. 11881

Friend Edison

Dr. Sir.

Our Post Office

Business has largely increased of late, and with the large number of letters mailed last month has attracted the attention of the authorities at Washington. And they require a larger Bond from this Office.

Enclosed I send you the Bond received from the Department. This Bond is to take the place of the \$500. which you was kind to sign.

I do not owe the Dept. one dollar and shall meet all dues promptly as heretofore, as long as I remain P.M. under any and all circumstances.

If you will please sign & have signatures witnessed as required & return to me you will confer another favor on

Yours Truly
M. D. M. Hursey

Answered
8/28/84 (H)

Most Pleasant
March 2nd 1884

My Old Friends,

Thomas A Edison Esq

I was in Port

Huron last week and had
the pleasure of a long
Conversation with your
Brother Wm. T. who said
you had kindly enquired
for me when you were
last there, I must say
I was much pleased
to hear it, also that I
had not altogether passed
from your memory, I
often think laughingly
of the long and I must
say pleasant times we
had on the G. I. R.
thinking over the Printing
press, and laboratory

operations, they were I
must say, at least to me
pleasant times, and
how near we were of
being blown up, not by
any persons living but
by the aforesaid laboratory.
I dare say you do not
yourself forget it, I was
also informed that you
or some person for you
had written a book of
that stage of your life
and Mr Stevenson loaned
me in a wish to own
a copy of it. I was
where to find it.

I am sorry to say I have
not been as successful
here as I at first expected
still I have not wanted
for anything I have.

been out of business
over two years and
ready for anything that
opens for me, you employ
a goodly number of
people you will know
what I mean, in the
mean time I hope you
won't let that hint be
the means of stopping you
from letting me hear
from you as you may
is sounded so largely
here that people here can
hardly believe me when
I say I knew you were
intimately so that I ask
it as a great favour
that you send me a
copy of your life as
published I hope this
will find you and.

Letter from an old friend

Mr Edison with the
olive branches of these
any (of that I do not have)
well, as I am pleased to
say this to you and
mine and believe me
to remain

Yours sincerely,

Alex. Stevenson

P.S. please write yourself
don't leave it to your
Secretary I have marked
this private for that reason
please address

Alex. Stevenson
Mt Pleasant
Isabella Co
Mich

Yours and
with the hand

Ans 4/4/21

Weymouth March 3rd 81

Mr. Edison

Dear Sir, I wrote you
some time since, stating that
I had a lot of Iridium which I
needed to dispose of and asking if
it would be of any use to you
and if so to make me an offer.
You wished to see a sample
which I now enclose. I have
near 1100 ozs which I obtained
from different lots of Platinum ore.
Please let me hear from you
in regard to it.

Respectfully yours

J. S. Nye

[POSTMARK: MARCH 10, 1881]

I shall experiment on
Saturday March 12th bet-
Land 5-8 o'clock.

Would be pleased to
see you. Geo. M. Davis
18 71 29

John F. Thompson,
Pres.

Arthur F. Blandhard,
Treas.

Leah D. Ward,
Mktg. Director.

Medical Department.

The Prudential Insurance Company,
of America.

Newark, N.J. Mich 11 1881

J.A. Edison Esq. -

Dear Sir. -

I have pleasure in
acknowledging the receipt of a certificate of
Stock of the Edison Electric Light Co. for which I
allowed you \$600. I am surprised to learn by your
letter that the price has advanced so rapidly
and could of course through your liberality make
a handsome sum by selling, but I am inclined
to hold it no matter which way it goes.

I have always been a firm believer in you and
the ultimate success of the Light and am proud
to be able to show some of my sporting friends
that I have a share of the stock for which I
have refused \$1600. Whenever you wish to introduce
the Light here I will do all I can to facilitate it

Yours very truly
Allen D. Ward

Recd
12/12/81
C. H. H. P.
Printed.

AMERICAN AUTOMATIC TELEGRAPH CO.
No. 52 BROADWAY.

New York, Dec 12 1881

My dear Edison.

I am in a
hole for 1,000. I can arrange
to put \$500 ^{over} for 20 days, but must
have \$500 very without fail.

You know I will not call upon
you except under necessity.

Please help me.

Yours
J. Riff

Insurell please
draw check for
\$500, Edison

Sonora Antimony Company.

MINES AT SONORA, MEXICO.

Office, 68 Milk Street, Boston, Mass.

W. A. SIMMONS,
President.

C. H. SIMMONS,
General Manager,
Oakland, Cal.

Prof. E. V. COX,
Assayer and Chemist.

P. O. BOX 1830, OAKLAND, CAL.

C. R. BATT,
Secretary and Treasurer.

T. C. MILLS,
Superintendent at Mines,
Sonora.

Oakland, Cal., *Nov 1st* 1881.

Mrs. A. Edmond Esq.
Melno Park N.Y.

Dear Sir

You will see by the above heading that I have changed my residence from Tucson, and by some unavoidable mistake your letter of 20th Nov. has but just reached me, together, with many others.

I did not carry my experiments on coking, under pressure to the extent that I desired, for want of apparatus and the necessary time to devote to it. But something, some will be found on the subject in my trial repts. sent. 1875 & 1878 I believe. My library remains packed up at London and I have no means of reference or reports to send you. You will find all my reports at Columbia School Mines and in the hands of many of the Professors of said college. You might also find in them an article that would interest you on the subject of a moderate heat, long continued on coal. You will notice that I speak of the coke, under the greatest pressure, used by me, as being fused on the edges. Prof. J. Southam

Bell, of Middleboro, Eng. When I showed him this coke and called his attention to the fact, was much astonished, and said that he could not conceive of coke fusing.

You will find in the April, N^o. of the Amer. Jour. of Science, an article headed, "Behaving by compression", by M. W. Springer, and taken from the Bulletin of the Bonwell Acad. of Science. The author states, that powdered bituminous coal, under a pressure of CO_2 atmosphere became solid and may be mobilized; while charcoal from burnt sugar exhibits no change. At 2000 powdered lead became solid, like a block obtained by fusion, and at 5000 it melted and run like water.

It has always been a source of regret with me, that, after giving the subject so much thought, that I was not able to push the experiments to the utmost limits of pressure.

I may add that all bituminous coals so far as tried do not act alike.

I also made a partial study of the effects of Chlorhydric and nitric acid on bituminous coal under pressure & felt sure that by this means, picric acid, and many aniline colors may be made direct from coal.

Time has also not as much to do in producing the physical changes in bituminous coal as the degree of heat and pressure.

I am not able without without access to my reports & laboratory book to give you any more information on the subject since it has been so long out of my mind.

With high regards.

Yours very truly
E. T. C. O.

John H. Porter
Essex Street, N.Y.
Opposite the
Court House
City of New York
P. O. Box 1830

Porter, Lowrey, Tichen & Howe.
Attorneys & Counsellors at Law.
No. 1 Broad St. New York.

Nov. 15, 1881. 14

Dear Mr. Edison:

We avail of your kind offer to "stir up the animals", as you put it.

We asked Telephone Company nearly a year ago for \$750 on account. It was in June, and perhaps you will remember I showed you the letter of that month, containing the request, which was among the papers at Mr. Cutting's office. Since that time a good deal of work has been done.

We ask now from the Telephone Company for \$1000 on account.

As to Electric Light Co. of Europe, we have on hand half-done business relating to assignments of the patents and interests of yourself, Puskas, Banker and Bailey, under the agreement of May 2, 1879, and will put everything into a bill together as soon as it is finished. Meantime, please have sent us \$750 on account of services to El. L. Co. of Europe. We have never received anything from the Company from first to last, and only \$250 from the Telephone Company.

I wrote Mr. Banker, at the beginning of the year that we must ask to have our business for these companies proceed henceforth on a business basis.

We also enclose our bills for disbursements --- actual cash outlays, customarily paid by other clients each month. Some of these bills have been due nearly a year and repeatedly rendered, but without any effect whatever.

Yours truly,
G. M. S.
Wm. R. Howard.

John K. Porter.
Greensboro N. C.
Geo. W. H. H. H.
Chas. H. H. H.
Geo. S. H. H.
Wm. L. H. H.

P. O. Box 18304

One Mable
Porter Lowrey, John C. Stone, Jr.
Attorneys & Counsellors at Law
No. 3 Broad St. New York.

March 16th 1881.

My dear Mr. Edison:---

McLaughlin has been here and left papers for my examination, and says an important meeting of Miocene Company is to be held on Friday, which I must attend.

Lowrey is sick; Stone is sick, and Judge Porter gone to Virginia. Western Union is also very sick, but clamoring for Doctors, and I am in it up to my eyes.

I don't intend to work day and night for anybody, without a consideration, and if I am to add this Miocene business to my load, I want to know what we are to get for it.

Your Companies, I do not hesitate to say, have treated us unfairly, and as I think you have a clear interest to have the work done well, I want you to look to it that we get fair compensation for our services, and not empty promises.

What are we to have in this Miocene business? What you say, I find is done. Will you let me know what it is to be in this case, for us.

2

If it is to be stock and no money, there must be enough of it to stand the racket of the market. If we are to be paid in money, let me know that. Business is business; and I can't take time from paying clients to give it to these companies on the very unbusinesslike and non-paying terms with which we have been put off by them hitherto.

Yours truly,

J. K. Porter
John C. Stone, Jr.



ATHEA
EDISON SPEAKING PHONOGRAPH CO.

PRESIDENT. VICE-PRESIDENT. SECRETARY AND TREASURER.
Gordon G. Hubbard. Thomas A. Edison. S. H. Johnson.

P. O. BOX 2702.

New York City, *March 16*, 1881

My Dear Edison

Yours to hand. I also have
a note from Mr Serrell to the
same effect. We will see what
can be done. Am sorry he did
not leave it until we got a
new Commissioner of Patents.

Yours
W. H. Paine.

Cleveland, O.

March 17th 1881

Thos. A. Edison, Esq.

My Dear Sir:

Your letter received with thanks. May I entreat you to advise me of the result of your letter to P. M. General James, and not let the matter drop if you will take any interest in me.

I believe that a position could be given me as a compliment to you - if nothing more, for even Kings and Emperors delight to honor genius such as yours.

There is another position I can fill efficiently - that of Revenue Storkharp (who watches distilleries) which is at the disposal of the Society of Treasury.

Should I be indebted to you for an appointment I shall take an early opportunity of paying my humble respects to you in person, and continue while life lasts your most grateful and humble friend

J. A. Grolaski

66 Bank Street.

unum

Illustra Segue,

Dall' Italia,
terra dell'entusiasmo e della poesia,
si eleva un grido di ammirazione
verso l'America, regione delle invenzioni
particolari, patria del più grande
genio moderno, Thomas Alva Edison.

Nobile vanto del nostro secolo
è il Fonografo, con cui Ella,
o illustre Signore, strappa all'aura
la voce per eternarla nell'età
futura.

È il *Tonoguo* stuppi al mio
 genio questo Canto, che fu letto con
 grande successo all'Università
 di Torino e incontrò il favore
 del primo critico d'Italia,
 Vittorio Borsari, come vedrai
 nel lusinghiero articolo unito al
 Conte medesimo.

Gradisca dunque, o illustre
 ingegnere e Professore, questo
 omaggio di un poeta, suo
 grande ammiratore

Mi farebbe cosa gradita
 se avessi la gentilezza di
 notificarmi per telegramma
 se ha ricevuto il mio Carme,
 perché per la grande lontananza,
 può perdersi; mentre si sono
 arditi di sapere se torrà gradito
 alla Signoria Vostra.

Sono con profondo stimulo
 tuo Dev^{to} ammiratore
 Professore Pietro Garavito

(Italia - Piemonte)

Città di Bra

- 1 Aprile 1881 -

Illustrious Sir:

From Italy, ^{hence} ~~land~~ of enthusiasm and poesy, comes
a cry of admiration wafted to America, land of portentous inventions,
and fatherland of the greatest genius of modern times, Thomas
Alva Edison.

Received
The noblest prize of our century is the phonograph, with which
you, illustrious sir, stamped the voice on the ear for all futurity.

On this phonograph my genius sought to impress a Canto,
which was read with great success at the University of Turin, and
was received with favor by the first critic of Italy, Vittorio
Bereid, as you will see in the leading article reprinted and
attached to the Canto itself.

Will you deign, Illustrious Engineer and Professor, to receive
this homage of a poet who feels the deepest admiration for
you?

You would greatly oblige if you would notify me by telegraph
of the receipt of my poem, which might have strayed on its distant
voyage.

I anxiously await news of its having reached your illustrious
hands,

With highest esteem,

I am, your devoted admirer.

Prof. Pietro Giovine.

Italy, (Piedmont)

Gita di Bra.

1 April, 1881.

Amund

65 5th. Avenue,
New York, April 15, 1881.

Dear Sir:

Your exquisite Canto reached me promptly.

*On receipt of
the Canto
of
the
12th*
You say you have given your Canto immortality by using my
Phonograph to record it; but your modesty forbid; you from saying
that I will live in the Canto, like a fly in amber.

Yours,

Thomas A. Edison.

Professore Pietro Giovine,
(Italia-Piemonte)

Citta di Bra.

Answered

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and RECEIVES messages only on condition of paying 10 cents per word, which have been accepted by the Secretary of the following message.
 Errors can be corrected only by repaying a message back to the sending station for retransmission.
 The Company will not be held liable for errors or delays in transmission or delivery of messages.

The message to be TRANSMITTED must be delivered by express of the sender, under the conditions stated above.

A. R. HILTON, Sec'y. 465 MORRIS GREEN, President.

Date Chicago 18 1880

Received at 791 BROADWAY apers

To Thos A Edison

65. 5 Ave

Have been sick seven

weeks not out yet.

Will write

Geo H Bliss

10 Paid

22

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

The Edison Electric Light Company,

65 Fifth Avenue,

Ward Green, Pres.
S. D. Eaton, Vice-Pres.
G. F. Parker, Treas.
C. Goddard, Sec'y.

New York, 19 April, 1881

Memorandum of transactions with
Mr. John A. Harjes of Paris;

(1) 50,000 fr. borrowed; paid the 14 mil for same
100,000 fr. with interest from Aug. 14/1880. added.
See two contracts in pkge left with you.

(2) 20,250 commission paid to him as per his
receipt in pkge. This does not appear in any aff
passed by Mr. Harjes.

(3) Demand was made, (see his letter and aff passed
to you) for 5 2/2% share, (26,250 fr) as additional
commission. When we resisted this demand
he sent to the Franco Egyptian Bank & offered
to pay the whole debt of Edison, Puckert & Bailly
to the Bank in order to get our shares in
his hands. The Bank refused to lend itself
to this extortion, - we had (Puckert & Bailly)
already raised the money to pay our part, & had
so advised him, (by letter in your pkge dated
Nov 8, 1880) He kept up contact on this
till receipt of our letter of Dec 10, 1880 threatening
him with exposure in the Courts, (see letter
in pkge.) when he yielded.

24

(4) Before Mr. Haigis would sign the joint contract he exacted an engagement with Mr. D'Aubergon (joint representation) to give to him (or his firm) 20% in the syndicate to be formed. I negotiated this arrangement, and was present at the conversation in which it was confirmed & saw Mr. D'Aubergon taken aside to write the letter engaging this 20%.

(5) Mr. Haigis took 20% in the syndicate formed by the Rio Egyptian Bank, and the engagement was contemporaneous with the signature of the contract, (this statement is made on authority.)

(6) ~~The~~ Between Nov 10/88 and Dec 10/88 Mr. Puckes and I sold 50,000 l. of Heliphoia shares at par for cash, receiving the cash & delivering shares on or about Dec 10. Large amounts of this stock were bought by members of the syndicate of which Mr. Haigis was & is a member. During Nov and Dec 1888. none at less than 500 (par) except I believe two lots belonging to subscribers in the syndicate.

and which I am informed were still Margale with their proportionate part of the expenses of the syndicate. These two lots were bought by the Franco Egyptian Bank at between ~~£~~ 460 and 480 francs the share, and were the lowest transactions heard of during Nov and Dec. These facts were within the knowledge of all persons in the syndicate, and of all without it who were interested in the matter, & I daily talked of.

At the date you sold your two hundred²⁰⁰ ^{for 500 shares} (after the sale of 372^{200 1/2} at 265 f.) shares were selling at 260, with free quotations on the Bourse. We sold it not on the same day within a ^{two or three} days of it at this figure.

All the above statements, except^(in sect 5, above) where it is said that the statement is made of my information, I know of my own personal knowledge and am prepared to make affidavit to, all the statements, with the exception of that about

4

the prices of stock can be verified by document, and this^{one} can be supported by abundant personal testimony other than mine.

J. H. Bailey

The undersigned, Joseph Franklin Bailey, ^{General agent} living at Paris, Boulevard Haussman, 190, of the first part, and Mr. John H. Harjes, Banker, living in Paris, 31 Boulevard Haussman, of the second part, agree as follows, -

Mr. Bailey sells to Mr. Harjes, who accepts,

First, - One part interest consisting of a Sixtieth in a society called the Edison Light for Belgium, Austria, France, Denmark, Germany, Russia, Italy, Switzerland, Norway, Spain, and in all of the rights, patents and privileges which attach thereto, as are ^{set forth} submitted in a contract, concluded Second of May 1879 at Menlo Park, in the State of New Jersey, between Messrs Thomas A. Edison, James H. Banker Theodore Puskas and said ^{share} Joseph F. Bailey.

Second, - One part interest, consisting of a twelfth, in a society called the Edison Telephone for Belgium, Austria, Denmark, Russia, Germany, Italy and Spain and in all of the rights, patents and privileges attached thereto, such as are submitted in a contract, concluded the 29th. of April 1879 at Menlo Park, New Jersey, between Messrs Edison, Samuel S. White, Puskas, Banker, and the said Bailey.

Third, - One part interest, consisting of a Ninth, in a Society called the Edison Telephone for France, and in all of the rights, patents and privileges which attach thereto, such as are ^{set forth} submitted in a contract, concluded at Paris 5th. of December 1878, between Messrs Berthon, Puskas, Godillot, Braney, Chatard, Evans and the said Bailey. This concession is accepted, by the cash payment of 50,000 francs, by the said Mr. Harjes to the said Bailey, receipt of which is acknowledged. Mr. Bailey reserves the right of repurchasing from Mr. Harjes the Sixtieth, the Twelfth and the Ninth

united, before the 15th. of August 1880 for the sum of 100,000 francs, and Mr. Harjes engages to transfer all these parts of interest on payment of 100,000 francs in cash in his hands before the 15 th. of August 1880.

As far as concerns the concession and transfer to Mr. Harjes of the Sixtieth, in the Society called the Edison Electric Light, or its retrocession to Mr. Bailey, as is cited above, Mr. Bailey engages to obtain from Messrs Edison, Banker and Puskas a written consent before May 1880; failing, Mr. Harjes will have the right to annul the present contract and to demand of Mr. Bailey the sum of 75,000 francs, dating from the 15th. of May 1880, as reimbursement, compensation and indemnity. As a guarantee of this sum of 75,000 francs, Mr. Bailey has signed a promissory note to Mr. Harjes' order for the sum of 75,000 francs, payable on the 15 th. of May, 1880.

As far as concerns the concession and transfer of a Twelfth and a Ninth, in the said "Society of the Telephone," Mr. Bailey agrees to obtain, under the same conditions, the written consent of the parties at interest in the said Societies, in case Mr. Harjes should judge it necessary, and this in two months after demand. It is understood, that, as far as concerns the Ninth conceded (as cited above) in the Telephone Society for France, this Ninth, in case a society should be formed for exploitation in this invention, should not be less than an Eighteenth of the whole.

Mr. Harjes shall remain the repository of these original documents, and Mr. Bailey can have copies made of them.

Done in Duplicate in Paris the 20th of Feby. 1880.

The above is approved,

Joseph F. Bailey.

DO. DO.

John Harjes.

Signed, in presence of,

H. Herold

O. SIEGEL.

It is understood that the said Mr. Bailey is alone responsible for the debts, disbursements, obligations, loans or dues that will have been incurred for the exploitation of the inventions, the patents, and the formation of the above ^{Scientific} in a proportion of parts to his interest, and that for the parts ceded by these presents, Mr. Harjeon is ^{not} _A and will in no way be held responsible for the said disbursements, dues and obligations.

16^e mars 1880

This is to certify that I have this day sold to M^r L^{ouis} H. Roques and shall deliver to him a good & in law valid Bill of sale of the following portions in the Edison's Telephone Companies namely. - One fortieth part in the Edison Telephone Co^r for France and one fortieth in the Edison Telephone Co^r for the rest of Europe the two fortieths together for the sum of seven thousand two hundred francs (francs 7500) of which twenty five hundred francs (francs 5500) I have received in cash and the remaining five thousand francs (francs 5000) to be paid to me on the first day of April next. - - In case I should be unable to give a clear title to the one fortieth part of the Edison Telephone Co^r for France by reason of not possessing it at any time during the current year (1880) I hereby promise to return to M^r L^{ouis} H. Roques on the thirty-first day of Dec^r 1880. the sum of three thousand seven hundred and fifty francs. (francs 3750). - executed in duplicate at Paris the 16^e March 1880.

In witness of
which

The undersigned, Mr. John H. Harjes Banker, living in Paris 31 Boulevard Haussmann, of the first part, and Mr. Joshua, Franklin Bailey, Merchant, (living in Paris, Boulevard Haussmann 190; formerly and actually of New York, William Street 19, but being domiciled, for the purpose of executing these presents, at Paris, 113 Boulevard Sabastopol at the house of Mr. Constant Rousseau his attorney in terms of the general power given to him, ^{on the record} ~~according to the deed and mandates~~ of Mr. Theret, notary in Paris, the 6th of last October,) of the second part, after having made the following statement:

Mr. Bailey has been first manager and then ^{Liquidator} ~~assignee~~ of the Edison American Society of Telephones, his place of business is at Paris, Avenue de L'Opera 45, ^{in course} of the liquidation of this Society, and for the purpose of liquidation, Mr. Bailey has personally borrowed from Mr. Harjes the 20th of February last, sums which, ^{according to the account agreed upon} ~~after account is demanded~~ before this date, have amounted to a total of one hundred thousand francs, and which do not apply to any other operation made between the above mentioned parties the 16th of last March, and which have been made the object of ^{a separate} ~~the second~~ arrangement.

The sum of one hundred thousand francs being demandable, Mr. Harjes consented to grant time to Mr. Bailey with security given and ^{and the parties are agreed as follows:} ~~regulated, and this understanding the parties hereto have complied as follows~~

Article I.

Mr. Harjes, on the solicitation of Mr. Bailey, grants him to the 14th of April 1881 to deliver the above sum of one hundred thousand

and francs which, up to this date, the 14th of April, 1881, and from the 15th of last August, will bear interest at five per cent per annum, payable at the same time with the capital.

Article II.

As a guarantee ~~for this~~^{Act}, and conformable to the terms of Article 91 of the Commercial Code, Mr. Bailey put ~~as~~^{as} colaterally in the hands of Mr. Harjes, who acknowledges the same,

First: one hundred and thirty-four ~~paid up~~^{paid up} shares of the "General Society of Telephones Edison, Gower and other systems doing business in Paris, Rue des Petits Champs 66, Limited, (with the capital of eight million, six hundred thousand francs, ^{whose} ~~as the~~ second general meeting was held, the 30th of last October, and ~~was~~ confirmed and published according to law, which 134 shares are represented by two provisional certificates, the first number ~~1354~~^{Nº 1354} of sixty-three shares, number ~~926~~^{Nº 926} to 998, the second number ~~667~~^{Nº 667} of seventy-five shares, numbers ~~3226~~^{Nº 3226} to 3300, but in which the shares in this certificate, ^{commencing at 712} ~~belong to these~~ number 3287 to number ~~3300~~^{Nº 3300}, are not affected by the pledges of these presents.

Second: Two hundred and twenty shares of the Edison Electric Light Company of Europe limited, of New York, represented by the four following certificates, ~~4900~~⁴⁹⁰⁰, certificate number one hundred and four of one hundred shares in the name of Thomas Harland, transferred on the back to Mr. Bailey, dated the 8th of October 1880.

2. Certificate No. 105, of 100 shares, in the name of the same Mr. Harland, with the same endorsement to Mr. Bailey.

3. Certificate No. 66, and 10 shares in the name of Mr. Bailey, endorsed for the purposes of these presents, and signed in blank by Mr. Bailey.

4. Certificate No. 77, of 10 shares in the name of Mr. Guy R. Pelton, with endorsement in blank signed by the said Pelton.

THIRD: 40 shares of the Edison Telephone company of Europe, Limited, of New York, represented by the two following certificates:

1. ~~One~~, Certificate No. 24, of 16 shares in the name of Thomas Harland, endorsed to Mr. Bailey, 4th of October, 1880.

2. ~~Two~~, Certificate No. 26, of 32 shares in the name of Mr. Bailey, with endorsement for the purposes of these presents, signed in a blank by Mr. Bailey. These two certificates representing 48 shares, being 8 shares more than the 40 given as collateral, Mr. Bailey may dispose of these 8 shares in excess, by severing title as regards Mr. Harjes: the latter, however, always retaining the 40 shares of the Edison Telephone Company, as collateral, until payment is made, or until the sale of the collateral.

Article 3.

In default of payment after the expiration of the 14th of next April, Mr. Harjes, conformable to Article 93 of the Commercial Code, and 8 days after a single notice given to Mr. Bailey, can proceed to sell, at Public Auction, the shares given as collateral according to

2.

these presents, and can apply what is necessary to the liquidation of his claim of 100,000 francs and costs.

Article 4.

It is here observed that Mr. Edison can pay to Mr. Harjes, before the 14th of April next, a sum of 33,333 francs and 33 centimes on account of this 100,000 francs due by Mr. Bailey; ^{but} although the cash may be paid, nevertheless the collateral shall not be diminished, and shall remain as an entirety until all payments are made, or collateral sold.

Article 5.

The expenses of the registration of these presents, (if that formality shall become necessary) shall be borne by Mr. Bailey, as well as all the costs, ~~although the cash may be paid nevertheless,~~ of execution.

Done in duplicate the 13th of November, 1880.

I accept the Contract.

John H. Harjes.

17 April 1960

[illegible]

17. 1880

signed in presence of J. T. C. & J. H. C. & the meeting
 of Nov. 11, 1888

Wm. B. F. V. 1861

Robertson
I hedge
from Mr
the Poie
Edison G
one him
whole u



I, the undersigned acknowledge that Mr. J. F. Bailey has delivered to me ^{in execution} certificates of the following values, ^A of our agreement of last March; that is to say:--

First: Three certificates for eighteen shares ~~of~~ the Edison Telephone Company of Europe, Limited, which certificates bear numbers 26, 25 and 22. The certificate 26 for thirty-two shares, of which 24 are applied to the guarantee of the 30th of last November, and eight to the present. A certificate 25 and 22 each for five shares.

Second: Certificates for 45 shares of the ["]General Society of Telephones for France bearing the numbers 667, for shares 3287 to 3300; the surplus of shares of this certificate applied to the above mentioned guarantee, and certificate 653 for shares 871 to 900, the surplus of this certificate remaining in the hands of M^r. Harjes, entirely paid up; receipt of which is acknowledged.

Of my free will and accord, I agree to resign to Mr. Bailey the 45 shares of the ["]General Society of Telephones, in consideration of the sum of 4500 francs, on condition that Mr. Bailey makes a call for it before the 15th of next April, and ^{also} conditioned upon my being reimbursed before the 15th of April, in the sum of 100,000 francs that being the object of the deed of guarantee that passed between us the 30th of November 1880.

Paris, 9th December, 1880.

John H. Harjes.

Edison Electric Light Company,

New York, Apr. 11-1881

Mr. Hargis:--

Dear Sir:--

As you know, since that has been under discussion, we have to present Mr. Edison an account of the expenses of which he has to bear one third, of The sums which you set aside for *1666 francs, 66 on one hand, and 6000 francs on the other* this expense--and which you have kept apart--are quite insufficient, *after your way,* We have regulated between us all that was required on your personal account, but none of that which was due upon the account of Mr. Edison. *We* will, therefore, present the account to be regulated in thirds between us and Mr. Edison, reserving besides, the privilege of communicating *to* them Mr. Edison; But we believe that we ought to submit them to you, since the power of attorney that you have from Mr. Edison is always in force, *You* having received your commissions, it is reasonable that you should do for us what we have done for you.

To resume!--We will keep these accounts and await your reply to the demand made on the part of Mr. Edison.

Copy of this letter to Mr. Hargis, sent from Vienna by Mr. Puskas and Mr. Basly, about Dec. 25. 1880.

E. L. - Chicago

~~Mrs. C. L. M. M.~~

G. H. M. M.

19th Apt.

Been sick

will come

N. Y. if necessary

Ans

Chicago, Ill. 4. 19. 81

P. O. & John Co.

Dear Sir:

Telegram 17th recd. Mch
I was taken with typhoid
fever and threatened with
Congestion of Brain caused by
long exposure and overwork.
Have been desperately sick but
am coming out sound as a dollar
and shall soon be ready for work.
Intend going to Mountain View
as able but can go to West
Vil to see you first if desired.
Drop me a line if anything to my
advantage there.

Sin. Y.

Res. H. B. B.

H. B. B. B. B. B. B.

Miscellaneous

Pawtucket April 19 1881

E. A. Courue

Apr 19th

My Dear Mr Edison

I don't know whether
you are a resident of Jersey or
New York in a legal sense,
and therefore I must ask you
to mark in the proper state-
ment where I have blue
pencilled in the accompanying
card of a transfer of a lib to
you.

I have done this in
order to make things about
square and you must not
decline.

Please send it to me
by bearer before 3 o'clock and
thence

Yours a —
Thos. A. Edison
(over)

I have to send it to
Washington to be duly
recorded, and then
will return it to you

[FROM GEORGE E. GOURAUD]

(No. 20, Delivery Form.) 100,000, 5-17-110.

The Direct United States Cable Company, (Limited.)

NEW YORK, Principal Office [Always Open], 16 BROAD STREET.

DELIVERED PROMPTLY

444 BROOME STREET

No. *114*

No. of Words, *4*

The following **CABLEGRAM** was received "VIA DIRECT CABLE,"

at *2 15 P.M.* *Apr 22* 188*1*

From *London* To *Wardens*

<i>Druxels</i>	<i>pay</i>	3
		6
		9
		12
		15
		18
		21
		24
		27
		30

No Inquiry respecting this Message can be attended to without the production of this Paper.

SOLE AGENTS,
"STRAHAN, LONDON."

6, Lombard Street, E.C. 4.
London, April 23rd 1884

J. A. Edison Esq

65 Fifth Avenue

New York

Dear Sir,

I beg to confirm the receipt of your
Cablegram dated April 22nd 1884 as follows:

"Answer cable fruit experiments immediately
To which I cabled you in reply on the
same date -

Drexels pay

Yours truly
J. E. Strahan
Jf

DEAL AGENTS.
"GUTHRIE, LONDON"

6, Lombard Street, E.C.

London, Apr. 23. 1881

J. Addison Esq.
65, Fifth Avenue
New York City

Dear Addison ^{fruit preserving} I have your
two cables asking for
three thousand dollars
on this account. The
first came while in Paris
whither I went to meet
the various parties
concerned in the formation
of the European Telephone
Company. I immediately
cabled Drexels to hand
you three thousand
dollars, and confirm cable
to you. Drexels says
that this money
will be expended in
great part in actual
putting up of stuff,
as so large an amount
could scarcely be required
for experiments, having
regard to the successful
experiments made last
summer and the great
simplicity of the process.
I hope you have taken
the necessary steps for
patenting the method

I will forward by
next mail agreement
and power of attorney
to cover this as in
the case of our other
partnerships. Kindly
on receipt of this
give me a general
letter on the subject
of what you are
expecting to do, and
how soon I may
look for something
tangible to deal
with.

Yours truly
Asilated by
Geo. S. Howard
Esq.

P.S. of the fruit brought
over I have left but one
peach marked August 19th
1880. It has retained its
form perfectly. The skin
only is somewhat broken
and shrivelled. There is
about half a teaspoonful
of water in the tube. There
is a round hole about
the size of a green
pea in one part of the
peach. The flesh is very
cold. I shall keep this
specimen for future reference.

JAMES U. MACKENZIE

—to—

CHESTER H. POND,

Contract in regard to

TELEPHONE INDICATOR

April 30/51.

This AGREEMENT made this 30th day of April, 1891, by and between JAMES U. MACKENZIE of New York, party of the first part and CHESTER H. POND, of Brooklyn, party of the second part, WITNESSETH that

WHEREAS, the party of the second part by an instrument bearing date August 11th, 1890, did convey to Thomas A. Edison an undivided two-thirds interest in a certain invention in Electric Visual Indicators so far as the same should be applied to the Telephone with full power, control and management of the development, display and sale of such application of said inventions subject to certain limitations therein contained and _____

WHEREAS the said Thomas A. Edison did by an instrument bearing date January 12, 1891 surrender and convey to the parties hereto the entire matter of the perfection and introduction of such application of said invention in the United States and Canada and did convey to the parties hereto equally one-half his interest in said invention that is to say, one-third of the whole thereof, on the agreement that the parties hereto would use every effort to develop and perfect said invention making in connection with other transfers the said parties equally owners thereof and _____

WHEREAS the party of the first part is an inventor of an improved Electrical Transmitter and which so far as the same is applicable to Telephone purposes is

owned by the same parties and in the same proportions as the said Electrical Indicator and _____

WHEREAS, the party of the second part is desirous of obtaining the entire control of said inventions

NOW THEREFORE the party of the first part in consideration of the premises and of the sum of \$1,000 to him in hand paid the receipt whereof is hereby acknowledged doth hereby sell, assign, transfer and set over unto the party of the second part one-half his interest in said inventions, that is to say, one-sixth of the whole of each of the said inventions, so that the interest of the said parties in said inventions as they may be applied to the Telephone shall be Thomas A. Edison one-third; the party of the first part one-sixth; and the party of the second part one-half; and the party of the first part doth also hereby grant to the party of the second part as part of said arrangement subject however to the approval of said Thomas A. Edison the entire control and management of the development and display and application and sale or rental or otherwise of said inventions with the same force and effect as but for the execution hereof the same is vested in the said parties.

AND THE PARTY OF THE SECOND PART agrees to account upon demand or within ten days after closing any transaction to the parties and in the proportion above-named for the net profits of the business herein contemplated.

And the party of the second part agrees not to sell or transfer for the purpose of raising capital to develop

and display said inventions a greater interest in said invention than one-sixth of the whole thereof.

AND THE SAID PARTY OF THE FIRST PART doth hereby covenant to proceed with all possible speed and dispatch to have his said invention for a Transmitter and any improvements thereof protected by Letters Patent in the United States of America and at the expense of the party of the second part and at any time when requested to execute and deliver to the party of the second part such assignment transfer and license as the said party of the second part shall be advised by counsel shall be necessary to vest in the said party of the second part and the said Thomas A. Edison in the proportions hereinbefore stated or in any corporation to be formed to operate said invention the right to use the said inventions so far as the same can be applied to the Telephone and the party of the first part doth also agree to convey in the same proportion any improvements that may be made with his knowledge upon said Transmitter and to advise and assist the said party of the second part in his efforts to develop and bring into practical operation the said invention not intending however, that he shall devote his whole time thereto or to interfere in any way with the prosecution of any other employment or business.

AND THE PARTY OF THE SECOND PART hereby agrees to use all reasonable and diligent exertions to develop,

Perfect and bring into practical operation the said application of said inventions and he hereby agrees to sell and transfer to the party of the first part on April 30, 1892, on the payment by him of \$500 one twenty-fourth part or interest thereof but without the privilege of the party of the first part to assign or transfer this option.

And this AGREEMENT shall not go into effect unless the consent of the said Thomas A. Edison to the terms thereof shall be endorsed thereon and it is intended to be limited in its operation to the United States of America.

IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals the day and year first above written.

IN PRESENCE OF

J. Macpherson
Chas. C. Bond

I approve and consent to the terms of the foregoing instrument.

Dated April 30, 1891.

26-Chicago

~~Mr. A. B. B. B.~~

14th May 81

Georg B. B.

in his conf.
on 7.

Chicago, Ill. May 14, 1881

Mr. A. B. B. B.

65 St. Ave. New York, N.Y.

Dear Sir:

I will try to place my
offerings on the 20th of May in
New York.

Should there be any

Rate please telegraph me.

Very truly

Yours in Christ

J. M. B. B.

THE FIRM OF DUN, BARLOW & CO., having been dissolved by the death of Mr. CHARLES BARLOW, the business of THE MERCANTILE AGENCY, in the City of New York, will be continued by the surviving partners under the firm name of DUN, WIMAN & CO. The branch offices in the United States and in Europe will be continued under the style of DUN, WIMAN & CO., as heretofore—Aug. 4, 1880.

The Mercantile Agency.
Dun, Barlow & Co.

314 & 316 Broadway, New York MAY 4TH 1888

T.A. EDISON ES.

NEW YORK.

MY DEAR SIR:-

I AM MUCH PLEASED THAT YOU SHOULD ASK ME ANYFAVOR . I SEND YOU HEREWITH SUCH INFORMATION AS WE HAVE REGARDING THE UNITED STATES REFLECTOR COMPANY. SHOULD IT NOT ANSWER ALL YOUR PORPOSES LET US KNOW AND WE WILL PURSUE IT FURTHER .

I HEAR DAILY FROM DWIGHT . I HOPE YOU WILL NOT FORGET TO GIVE HIM A GOOD CHANCE IN CANADA IF YOU CAN

TRULY YOURS

E. WILMAN.

T. A. EDISON,

Menlo Park, N. J., May 5th 1881.

Pencil Experiments

For
Hughes Report

Mr. T. A. Edison.

Have exhausted
14 bulbs containing straw-
berries. The first two taken
off at 3 A.M. Sunday are
evidently spoiled although
retaining some of their
natural color. The water in
them has come up into the
bulb and left the berries
soft. Vacuum 5 hours.

No 3 & 4 Taken off pumps at
12²⁰ P.M. May 2nd. 3 1/2 hour vacuum
are fairly kept and some
of them which do not touch
the glass and are not crowd-
ed nor frost as ever. These
were exposed to the air 30 hours
longer than 102 before being
operated upon.

No 5 Containing fine Florida

strawberries taken off Pump
at 11⁰⁵ PM May 2nd 2 1/2 hours
vacuum look very fair some
of them as fresh as when put
in
No 6 same as No 5 but wrapped
in tissue paper which does
seem to make any differ-
-ence

No 7 strawberries 5 days fresh
and sealed without exhaust-
ing at 3 AM same time used
the same berries as No 1 & 2
look about as fresh as they
do.

No 8 same berries as No 5 & 6
exposed to the air while
5 & 6 were being exhausted
2 1/2 hours. Taken off Pump
at 11⁰⁵ PM May 3rd 2 1/2
hours vacuum are quite fresh
where they are not pressed
against the glass.

No 9 same as No 8 vacuum not
so good. Berries fresh about
as good. Moral High vacuum

T. A. EDISON,

Menlo Park, N. J., _____ 1881.

not absolutely necessary.
No 14 Strawberries 11 days pick-
ed put in pump without
Phosphoric Chamber with
straight tube instead of bent
Got good vacuum in 5 or
6 hours took off at 9:45 P.M.
May 3rd are quite fresh
No 11 same as No 10, but vacuum
No 14 Charleston berries 11 days
off vines very nice taken off
at 2 P.M. May 14th 11 hours
vacuum are quite fresh
No 17 same as No 11 equally
fresh.
No 13 same strawberries as
No 11 & 14 sealed without
exhausting at 11 P.M. May 11th
and are apparently just
as fresh. Moral! Don't
exhaust at all.

Nov 14 Same berries as 11, 12 & 13

2 hour vacuum vacuum very
fair. Berries are quite fresh.
Fried six bulbs with four
-atoes. They all burst in
about an hour each. Staled
some without exhausting
Saut use Phosphoric Chlor-
ber as it takes up too much
moisture and wastes much
of it. Think the hole spoken
of by Mr Bourne was
made by too high vacuum.
and that he will find that
the water in the bulb saut-
-ains all that is good
of the sack. Am open
for suggestions

Yours Truly
Chas. F. Higgins.

100 2nd May 5/88

FIFTH AVENUE HOTEL,
MADISON SQUARE, NEW YORK.
HITCHCOCK, DARLING & CO.

May 14, 1881.

My dear Edison:

This note
will introduce to you Genl
Adelbert Ames, my son-in-
law, who together with
me is interested in an
Electric signal which
is now in use on the
42^d Street branch of the
Elevated Railroad. I be-
lieve it does not inter-
fere with any invention
of yours, but if it does
I should like to know it.
If you will examine it
and give me a note say-
ing whether it has any

FIFTH AVENUE HOTEL,
MADISON SQUARE, NEW YORK.
HITCHCOCK, DARLING & CO.

elements of usefulness
you will do a favor
which you know I will
reciprocate.

Yours truly,
J. M. Butler

Thomas A. Edison Esq.
Menlo Park N.J.

Address all Correspondence,
P. O. Box 3838,
New York.

"SCIENCE."

A WEEKLY RECORD OF SCIENTIFIC PROGRESS.

TRIBUNE BUILDING, (Room 17).

New York, May 20th 1881

To Saml Insull Esq.
Fifth Avenue. N.Y.

Dear Sir,

I saw an instrument
to day at the office of the American
Journal of Microscopy - 14 Bay Street
which I think Mr. Edison would
like - The price is £ 240. for the
stand, off which I can get a
discount of £ 40. making £ 200. -

It is made by Orverch of London
and has a mechanical stage with
goniometer for measuring angles of
crystals. -

There is no case, but these handsome
instruments are usually kept under
flap shades. -

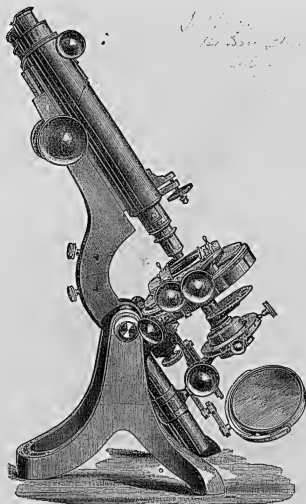
If you would like to have it on
trial, I have arranged for you to
receive it. —

I enclose a cut of the Microscope
Mr Edison saw advertised and
enquired about, — You can thus
compare the two stands

If you would like the Crouch
for a trial, drop a line to J. Thim
14 Day Street City — or to me.

~~Yours truly~~
John Nichols

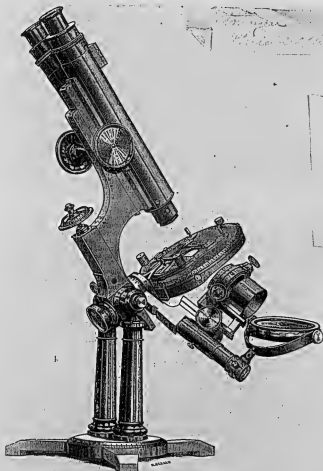
Yours truly
John Nichols
Enclosed



8116.

Handwritten notes below the instrument:

Handwritten text	Handwritten text
Handwritten text	Handwritten text
Handwritten text	Handwritten text



OROUGH'S NEW LARGE-BEST MICROSCOPE STAND.

This handsome instrument combines all the latest improvements in construction. It has been very carefully remodelled, and includes every possible adjustment. The Stage and the whole of the optical arrangements are carried by the limb, which is sufficiently solid to practically abolish vibration, even with the application of the highest powers. The Body is fitted with Wenham's Dissipator Arrangement, complete with rack-work adjustment to draw tubes, for perfect adaptation to individual vision; coarse and fine adjustments, with range for all objectives; Compound Goniometer Stage, graduated upon silvered ring to 360°, with complete rotary and rectangular movements, and new centring adjustments, by which the rotation of the Stage is rendered instantaneously perfect with any objective. New Sub-stage, with centring and focusing adjustments, entirely removable by lateral slide for oblique illumination by the mirror. Large flat and concave mirrors, with double crank and all necessary movements; graduated draw-tube.

3115. CAUCHY'S NEW LARGE BEST MICROSCOPE, BINOCULAR, with two pairs of eye-pieces, Nos. 1 and 2; single-forecups and hand pillars, in best portable mahogany case, with best brass handle and lock, and fittings for necessary apparatus. 210 00

3120.

Stand \$30-
 mechanical app. 30
 8320

T. A. EDISON,
65 Fifth Avenue.

New York, June 3rd 1881

Mr. T. A. Edison

Dear Sir. I have arranged
with a Mr. Watson of Chestertown
Maryland for the privilege of erect-
ing my apparatus on his place.
He has the finest orchard with
the sweet varieties and alth-
ough his crop will not be
full he will have more than
we want and a branch of the
N.Y. & P.R.R. runs right on to
his farm and we can load
right into the cars.

Yours Truly

Chas. T. Hughes

See also "Fruit Preservation"
and "El. Light - Foreign -
England"

(Insull)

New York, June 3rd. 1881.

65 Fifth Ave.

My Dear Colonel:-

I duly received your kind favor of May 21st. which reminded me that I had abstained from writing to you for almost a month. My apology for this must be the great press of business that we have to deal with, but for the future I hope to be able to send you a letter weekly as I promised.

English Telephone.

I have read your letter addressed to Mr. Edison dated May 21st. In it you seem somewhat to have mixed up my letter of the 29th. of April with his letter sent somewhere about that date. This rather confused him and he required some explanation from me as to what I had been writing to you. I would prefer my letters to you not being quoted in any letters addressed to him. I am very glad that the Construction Company met with so great a success and trust that the dividends it will earn will, to some extent, justify the enormous premium at which the shares now stand. If you can hurry the settlement of the Edison reversion in the London Company any you will confer a favor on Mr. Edison as he would no doubt be very glad to receive the funds due from that quarter. I suppose, however, like all other matters that get

into the English law courts, will require some considerable time as our legal authorities in the old country seem to aim at the point of "how not to do a thing." Your letter with enclosures relating to the Glasgow Company has just arrived. You will no doubt hear from Mr. Edison on this matter in the course of a mail or so.

Oriental Company.

If I have time I shall write you an official letter to night explaining the status of the Le Gendre matter, but I may here state that Mr. Edison considers the Le Gendre contract null and void as he has done nothing whatever to push Telephone matters although he has had a contract for about a year. Mr. Edison is by no means afraid of Le Gendre troubling us any, but you may rely on Edison doing his very best in the matter. You may probably have thought that we quite overlooked this matter as you heard so little from us for so long a time, but all that time Mr. Edison was doing his very best to straighten the matter out, and I myself was also occupied considerably in attending to this matter. You must not think that simply because you do not hear from me that he and myself have entirely overlooked the matter.

Electric Light, England.

You wrote Mr. Edison some time back stating what your ideas were as to how the Light Company should be completed in England, namely, that the whole of the stock should be issued:

that money for actual work done should be obtained by the issue of debentures. Mr. Edison did not look upon this proposition with favor at all. He seems very adverse to overloading an Electric Light Company by issuing stock in this manner. The fight with the Gas companies will be quite hard enough even if we obtained money on the stock itself, but how it would be if the thing was loaded down by issuing stock working on debentures it is hard to say. The plant for England will be of the very best. The Steam Dynamo which is to be sent will be capable of running no less than twelve hundred lights, and the outfit will in every part be of the most finished character. The workmen at Edison's machine works are working night and day to get this out, so that not a moment is being lost. Mr. Edison is highly impressed with the great importance of meeting his opponents in England by an exhibition of his light at the earliest possible moment. It is practically decided as to Johnson's going to England. He will in all probability give his undivided attention to the preparation of the plant from next week forward, and you well know that when Johnson takes up a thing not a stone will be left unturned in order to get it out by the required time. The exhibit in London will no doubt be a credit to the name of Edison.

The Electric Congress, Paris.

As I wrote you some time back Mr. Edison is thoroughly aroused to the necessity of making the best possible exhibit at

Paris. He will have no less than ninety two groups of Exhibits besides his Electric Light. The Automatic, quadruplex, stock reporter, telephone, phonograph, electric pen, in fact every thing so far as it is possible that he has brought out will be exhibited at Paris. I have seen a good many of the exhibits which are already finished. They are got up in extremely nice style, and I think that the English and other inventors will have a hard job to show anything to equal it. I know that you have for a very long time past wished to see something of this character on the other side of the Atlantic so that justice might be done to Mr. Edison and his inventions, and, unless the electrical public are very greatly prejudiced against him, they cannot but be convinced of the practicability and universality of his inventions. The Electric Light outfit for Paris will be equally complete as the one just going to London. In fact it will be an exact counterpart of it so that at one and the same time London and Paris will be able to see Mr. Edison's light in its perfection.

I will write you fully as to other matters by next week's mail.

Very faithfully yours,

P.S.

If you have any telegraphic, telephonic or electrical apparatus that you can spare - this would be a good place to send it, in fact shall be glad if you will do what you can for the school as I should like to let the public know that you have done so -

W.H.

Telephone Training School,

Brimwood, Bentalah Hill,

Upper Norwood,

June 7th 1881

Dear Edison,

Will you be good enough to send me, by first mail, copies of the volumes of your patents up to date - I have pleasure in sending you a proof of the proposed prospectus of the Telephone Training School which I hope to have underweigh directly - I have placed your name among the patrons, to which I hope you will have no objection -

Yours very truly -

J. A. Edison Esq.

P.S.D.

[ENCLOSURE]

PROOF

Telephone Training School,
UPPER NORWOOD.

Patrons:

Treasurer:

COLONEL GOURAUD.
PATRICK CARNAGY, Esq., C.I.E.
FREDERIC CLIFT, Esq., LL.D., Cam.

Object. Although the invention of the Telephone is of but recent date its introduction has been of such rapid growth as to have already given employment to a large number of experts, for whom the demand is constantly increasing and may be safely said to have already exceeded the supply. It is to meet a demand which for many years to come must of necessity increase that the Telephone Training School has been established.

Course of Instruction. Practical instruction will be the essential feature of the system, and to this end every description of Apparatus, Telephone as well as all apparatus appertaining &c.

thereto, for both exchange systems and private communication will be provided, and so far as possible in duplicate, so that pupils will have the opportunity of dissecting and reconstructing the same.

Tools and materials for making those parts of the various apparatus that can be made by hand will be furnished, and every facility given for conducting experiments by those pupils whose tastes incline them in that direction. Complete working Telephone exchanges upon all the various systems in use in different countries will be in practical working order, and pupils will be trained to every department of their manipulation.

Tools, poles, wire, insulators, brackets, &c., will be supplied for outdoor construction, concerning which practical instruction will be given. Pupils will then be enabled to avail themselves of testing their own abilities, under personal supervision.

Testing apparatus will be also provided, with which pupils will be taught to measure the electrical resistances of the various instruments, batteries, and wires, and the more important matter of localizing faults, both in apparatus and on the line wires.

Pupils desirous of extending their studies and practice to Telegraphy will be afforded every facility for doing so.

While the course of instruction will be essentially practical the theoretical will not be neglected.

All the leading scientific journals will be provided.

Application. Application for admission into the School must be made on forms provided for the purpose, which may be obtained from the Principal.

Board and Residence. Board and residence can be obtained on reasonable terms in the neighbourhood.

Situation. The School is situated in a most healthy suburb of London, and includes about two acres of ground.

Profit of School. This Institution is not established with a view to profit, but, on the contrary, it is provided that any surplus, after the expenses have been covered, will be applied to the benefit of the School.

Duration of Course. The course of instruction may occupy from one to three terms of about three months each, depending upon the previous experience or aptitude of the pupil.

Fees.	One term	20 guineas.
	Two terms	55 guineas.
	Three terms	70 guineas.

N.B.—Although the list of patrons includes a number of gentlemen prominently connected with the Telephone Companies, it must not be inferred that appointments in these companies will necessarily follow.

CHARLES E. WINTER,

ASSOCIATE OF THE SOCIETY OF TELEGRAPH ENGINEERS AND ELECTRICIANS,

Electrician & Principal,

BINSWOOD, BEULAK HILL,

UPPER NORWOOD.

New York, June 11th. 1881.

65 Fifth. Ave.

My Dear Colonel

I beg to confirm dispatch to you of letter of June 3rd. which I hope you will receive in due course.

Fruit Experiments.

From your letters to Mr. Edison you seem to have assumed that the question of preservation of Fruit was absolutely settled last year and that there would be no further difficulty about the matter. As a matter of fact it requires considerable experimenting and although Mr. Edison proposes to ship some fruit and other things to you during this season it has not yet proved a perfect success. Of course he intends working on it until it is, but I thought it as well to make these remarks in case you should be under the impression that the question is settled beyond a doubt. One of Mr. Edison's assistants has been down to Delaware and made arrangements there with a peach farmer by which he will be able to put the fruit up in carboys, exhaust them and ship them right from the farm itself. As soon as the season commences you will no doubt receive some considerable trial shipments and in the mean time you will get from us various experimental packages.

Ore Milling.

I have been down to Quogue this week with Mr. Edison to see his magnetite ore separator in operation. you may remember receiving from me about 6 months ago specifications for patents

to be taken out in several foreign countries your consideration for doing so being that you were to receive a certain interest in the invention in those countries. What they are doing here is to pass the black sand, which is found in very large quantities on the coast of Long Island and which contains about twenty per cent of the purest ore, through the magnetic separator and the results they get are of the best character. You may remember that Mr. Edison originally experimented with this invention with the idea of abstracting from gold tailings all that is magnetic and so more easily work gold, but he finds that instead of throwing the magnetic portion away it can be worked up into the very best iron equal to Swedish bars at a cost which makes it far more valuable than working the gold tailings. To the best of my recollection when you received the specifications for the patents very little was done in the matter. I think that we filed the preliminary specifications in several countries and I feel certain that ^{nothing} ^{was} ever done in the matter. I think it would be well for you to look into this matter and get these patents straightened out as wherever black sand is to be found this invention will be very valuable indeed.

Telephone General.

I sent you a number of letters the early part of this week on the subject of Telephone matters and should be very glad if you could settle them up as quickly as possible. With reference to that question of the Glasgow royalty Mr. Edison seems very

decided in his opinion, and I cannot say that I disagree with him. You well know Johnson's views on this subject and mine are pretty nearly identical with his. We have hear nothing from you for some time with reference to the European Telephone Company and are consequently considerable in the dark as to how this matter is going on. Several times Mr. Edison has asked me if I have heard anything from England about it, but as I was to hear ^{only} from either Mr. Bailey or yourself, and, as Mr. Bailey has been such a short time in Europe, I have received no information at all upon the subject.

Pond Indicator.

When I first got here I wrote you that I would get you some information as to the present state of the Pond Indicator. My time has been so very fully occupied ever since my arrival that it was not until a very few days back that I was able to go and make an inspection of that very useful and complete invention. The ^{Indicator} ~~connection~~ is very complete in every respect whether it be simply for messenger service or for use in connection with the Telephone Exchange system. We certainly have nothing in England equal to it, in fact they seem very far before us here in all such matters. I am told that when you saw the instrument it was ^{much} more complicated whereas now any child could operate it in the easiest possible manner. Mr. Kenzie has invented what he terms The Universal Signal Transmitter which will enable a subscriber to send any signal to the Telephone Exchange from one up to a thousand, or it could be arranged to go beyond that. This is done

by such a simple movement that it is impossible for a mistake to be made and if it were adopted throughout the Telephone system in England would undoubtedly greatly increase the reliability of the service. I think you would do well to look this matter up as it must play an important part in the future of the Telephone. I understand that it will be exhibited at the Paris Exposition and it is probable that our friend Mr. Kenzie will be in charge.

There is very little to say to you with reference to the preparations for the exhibit at Paris. Mr. Batchelor is hurrying forward as quickly as possible and hopes to get every thing there before the opening! Electric Light matters here are about the same. Our men are still wiring houses with astonishing rapidity with the canvassers at the same time getting just as many orders as they like to apply for. Your exhibition plant for London is well under way and will be shipped a very little after the time that the one starts for Paris.

Very Faithfully yours,

(Samuel Insull)

6, Lombard Street, E.C. 4.
London June 15th 1884

Edison by
Menlo Park, New Jersey
U.S.A.

Dear Sir, Thirt 7th Preserving process

I am in receipt of Mr. Hughes' letter of the 9th May, in which he advises me of his having dispatched a "Lamb Chop, & a Porterhouse steak" - These, together with a few strawberries, have come safely to hand - I opened the tubes a few days after their arrival, but the result was anything but satisfactory -

The stink emitted from the "Chop and Steak" was to such a degree noxious, that I was unable to remain in the room & it was some time before I recovered from its bad effects. The strawberries appeared to be on the point of decomposition & the tube contained a good deal of water. I regret to say that the process, as applied to these instances at least, has proved a complete failure -

Yours faithfully
G. E. Souraud
Jf

2. Lombard Street, E.C.

London June 17th 1881

Sam^l Insull Esq;

65, Fifth Ave,
New York City

My dear Mr Insull.

I have received your letter of June 3^d which is a very readable sort of letter, owing to the nice printing of the writing machine, which must be a better machine than when I had to do with it. I should like to know how writing by this compares with writing by the pen as regards accuracy and rapidity.

English Telephon
matters are in a fair way

of reaching an early settlement, and I shall hope soon to make Mr Edison a very substantial remittance.

Oriental Telephone.

Settlement with the vendors is still delayed owing to the insufficient powers of Mr Hubbard to sign Mr Bell's name, and the non-receipt of documents sent to Mr Bell for his own signature. This delay is most prejudicial.

Electrical Congress.

I am more than delighted at the show Edison promises to make at the Electrical Congress. I should be ashamed to attend it in my official capacity with Edison inadequately represented by his works.

I am more than glad that ^{coming} Johnson is here and determined on the receipt of his cable to stay all work in

Connection with the Electric Light
Exhibition, until he comes to his

Yours truly,

[Signature]

Gouvard
General

17th June 81

The Edison Electric Light Company,
65 Fifth Avenue,

Nathan Green, Pres.
S. B. Eaton, Vice-Pres.
E. P. Fabbri, Treas.
C. G. Giddens, Sec'y.

New York, *11th* *Jan* 188*1*

Calvin Goddard Esq
Trustee

Dear Sir

I find that the contract which I have ~~the~~ day formally executed pertaining to the transfer of my entire interest in Ponds Visual Indicator system and MacKenzie's signal transmitters in France Belgium and Austria contains no provision for any future improvements on said inventions

I am therefore I hereby agree and covenant in consideration of the cash and stock provided for in said contract that I will assign to yourself as Trustee or to any other party designated by you all my right title and interest in any and all improvements which may be made in either invention during the life of the patents by either Pond MacKenzie or others which I ~~may~~ ^{shall} be entitled to

Witnessed
Otto Holloves

Thos Edison

Thomas A. Edison

With

Calvin Goddard
Trustee &c.

Agreement

This AGREEMENT made this 17th day of June 1881, by and between Thomas A. Edison, of Menlo Park, in the County of Middlesex and State of New Jersey, of the first part, and Calvin Goddard, Trustee, for the "Pond Indicator Company of Europe" a corporation about to be organized and incorporated under the laws of the State of New York, of the second part,

W I T N E S S E T H

Whereas, the party of the first part is the owner of an undivided two thirds ($\frac{2}{3}$) interest in the inventions that constitute the "Pond Indicator System" as applied to telephonic signalling, in the countries of France, Belgium and Austro-Hungary.

And whereas the party of the second part is desirous of acquiring the entire interest of the party of the first part in said inventions in and for the countries named,

Now therefore the parties have agreed as follows;

1. The party of the first part, in consideration of twenty-five hundred dollars (\$2500) to him in hand paid, and the covenant of the party of the second part hereinafter set forth, has sold, assigned and set over, and does hereby sell assign and set over unto the said Calvin Goddard, Trustee, and unto his legal representatives, his entire right, title and interest in and to the inventions that constitute the Pond Indicator System, and in and to all Letters Patent that have been and may be granted for such inventions, ^{by Pond or others} in the countries of France, Belgium and Austro-Hungary.

2. And the party of the first part hereby covenants and agrees for himself and his legal representatives, to execute all such other transfers, assignments conveyance and papers that may be necessary to convey his interest afore-

Tag

said to the party of the second part upon the demand of the party of the second part.

3. The party of the second part covenants and agrees for himself and his legal representatives to transfer and deliver to the party of the first part, in addition to the twenty five hundred dollars (\$2,500) aforesaid, ^{thirty} ~~thirteen~~ per cent ³⁰⁰ ~~15~~ of the entire capital stock of the Pond Indicator Company of Europe, in full paid stock, when said Company has been duly organized and incorporated and the stock issued.

IN WITNESS WHEREOF, the parties to these presents have hereunto set their hands and seals the day and year first above written.

In presence of

The word "fifties" on the sixth line 2nd page and the figures "55" seventh line 2nd page erased and the word "thirty" and figures "30" substituted before signing

Otto Kollosas.

Thos A Edison
C. Howard
Thos MacKusio

New York, June 17th. 1881.

65 Fifth Ave.

My Dear Colonel:-

Fruit Experiments.

In my letter to you of June 11th. I should have stated that the appliances requisite to start this business will take a considerable portion of the amount which you cabled over to Mr. Edison on this account. It requires a 4 horse power engine, and Archimedeian screw in connection with mercury pumps, a moveable frame building which can be put up with ease wherever the Peaches are contracted for, an account of all of which I will endeavor to send you next week. Experiments are now being made to the end of finding out the best way to seal the carboys in which it is proposed to ship the fruit, and no doubt by the time the season comes round Mr. Hughes, who has this matter in charge, will be quite ready to send you some considerable shipments of fruit and other things.

Electric Light.

I have seen your various cables to Mr. Edison and Drexel, Hufgan & Co. on this matter. As you will have learned from Johnson's cable to you Mr. Edison and he are decidedly of the opinion that to show the light off to good advantage you should wait until Johnson can set up the 1200 light machines. Johnson hopes to be able to get off by the Arizona which sails on July 19th. Every thing is being done to get the machinery ready by that time, and I may mention that only to-day the Porter Allen engine to be att-

ached to the direct acting dynamo arrived at our machine works. I have just now come from the works and am sure that if you could only see the system upon which things are managed there, the great rush with which our superintendent is trying to turn out the necessary plant for England, you would have confidence that it is utterly impossible for any shop either on this or the other side of the Atlantic to do the work quicker. I expect that in the course of 10 days or a fortnight the engine will have been attached to the dynamo and the thing thoroughly tested in anticipation of shipment. Our lamps are showing very wonderful results indeed. You may possibly remember that Mr. Edison estimated their life would be about 300 hours whereas so far we have found that they will last considerably longer. I think I told you in a previous letter that we started lighting here on the 24th. of March and up to the present time not a single lamp has broken. Down at Menlo Park at the lamp factory there are some test lamps which have been lit about 700 hours and there are many who venture the assertion that before these play out the lamps will have reached an average life of 1500 hours. This, of course, means much greater economy and must of necessity render the great task before you in floating the invention considerably easier. I see in one of your telegrams you refer to John Pender's company having bought the Maxim patents. I wish you would just buy a copy of these patents and a copy of Mr. Edison's and satisfy yourself as to the very great difference

between the dates of them, Mr. Edison's patents being so far in advance of Maxim. An article appeared in the New York Sun some few days back stating that it was impossible in the present state of the art for an incandescent electric light to compete with gas. Now, as a matter of fact, our gas here would have cost us more than a dollar a night more than does Mr. Edison's light. This calculation is not made alone by Mr. Edison, but has been verified by the Chief Engineer of the Company who supplied us with the steam engine for driving our dynamo. He made the most exhaustive tests as to the amount of coal consumed and after making the most liberal allowance for interest on investment, depreciation &c. stated to me this afternoon that Mr. Edison's estimate was considerably below the mark and that if we waited until the end of the year and reckoned up what it had cost us we should find that the saving was decidedly over a dollar per night. In this connection I may mention that a meeting of the stockholders of the Maxim company was held on June 7th. at the Equitable Building when the Secty. stated in answer to a question put by a stockholder that lighting by incandescence is now more costly than gas, but electric lighting is in the position that lighting by gas was when it was first introduced. He further stated that it was only a question of overcoming certain difficulties (mechanical ones) and perfecting the requisite apparatus the experiments for which would ultimately accomplish the desired end, i. e. produce a light cheaper than gas. Now this is no rumor but the official statement made at the meeting

of the stockholders of an opposition company. I notice among those present were a number of your associates in the Mercantile Trust and I think they are sincerely to be pitied as the chances for their getting back what they have invested seem to be very slight indeed. If Mr. John Pender has bought the Maxim patents I do not think it will take very long for him to discover when the Maxim light is put into operation in London that he has made a great mistake although I presume his real object is to get a certain vested interest so as to compel the Edison Company to buy him out. The various exhibits for Paris are rapidly approaching completion. In fact quite a number of packages have already been shipped. I have seen a good many of the instruments and was immensely pleased with the style in which they are got up and the show that they will make will be decidedly a brilliant one. In my last letter to you I referred to the Pond Indicator. Since then I understand that the rights for Belgium, France and Austria have been sold for a very handsome sum. I think your agreement with reference to this only refers to the indicator as applied to Telephone. You certainly should endeavor to get the complete control of this invention for every purpose for England. I think that you would find it a very good thing.

When I write you next week I hope I shall be able to give you really definite news as to when you may expect the electric plant for London.

Very faithfully yours,

(Shaw)

G. Lombard & Co.
London June 25th 1887

J. A. Edison Esq.,
65, Fifth Avenue,
New York

Dear Sir, I beg to confirm
your cable as follows
received yesterday
'Ship Elliot Brothers
'Galvanometer and resistance
'coil Catalogue numbers
'twenty two and sixty
'four tell Denmark
'Oriental contracts
'mailed long ago.'

Yours truly
J. Forivaud

6, Lombard Street, E.C. 4.
London, June 28th 1881

J. A. Edison Esq.
65, Fifth Avenue
New York -

(Dear Edison,

In accordance with your
cablegram, elsewhere confirmed,
I have today instructed Messrs
Elliot Bros: to at once forward
to you one each of their
Galvanometers and resistance
coils, No 22 & 64 in their catalogue

Yours faithfully
J. S. Fournand
J.S.

Fournand
General

28th June 81

Miscellaneous

30 June 81

J. C. Bailey

Pond Indicate

My Dear Sir:

Boston 30 June '81

There was in a hurry to get hold of a paper that was subject to a favorable opinion of the court and after that on my part to write such opinion. The cable giving me the number of the patent to submit to Ammen was sent from New York the 2^d June & reached me the 3^d in London. I was willing to stand a reasonable punishment for the most stupid blunder I ever made in my life & therefore offered 20th shares of S. & to go through with payments, as I had undertaken them, this I considered good pay for 18 days delay. — In confirmation of fact that I acted in entire good faith I should like to tell you that he has letter from me

written 28th May, ^{or day, or two after,} telling him
to sell E.L. shares for me to pay
the \$500 "first of June," which letter
he couldn't have received before the
10 June. — It was a curious case
of an enormous simplification at the
moment of sending my first
cable about the business, and
which governed all my subse-
-quent mental operations in
subsequent business concerns,
connection with N. It could
not have continued except for
my untitled, hurried life between
London & Paris since my return,
which hasn't allowed me getting
down to any consecutive work.
I suppose the 50 shares have
been returned in accordance
with cable to that effect. I am, my dear
J. A. E. in haste, D. D. Bailey

I New York July 1st. 1884.

My Dear Colonel:-

I have written you weekly for some time past, but have not received any note from you as to whether you have got my letters. I presume, however, that they have all arrived and that you will see whether you can find time to write me. When you have a little time to spare I should like a line from you giving me some general information as to how matters progress in England.

Fruit Experiments.

Your letter relating your experience with the chops, and steaks and strawberries came duly to hand. Mr. Edison was really amused by it, and he wished me to say to you that he is highly delighted that the first attempt should not prove successful as it would be really too bad to find that he was working on a thing that any man could make go all right, and that one XXXX guarantee against infringers when he does get the thing to work in proper order will be that they will have the same difficulty in getting an efficient process, and will in fact have to go through precisely the same ~~xxxxxx~~ experience as he always expects to have to undergo when experimenting on some new invention. But, of course, the fact that because those chops emitted such an abominable smell will not deter him from continuing his experiments which will no doubt turn out all right eventually. From my previous letters you will have understood that your report as to the condition of

what you receive does not surprise him in the slightest degree.

Electric Light.

The plant for England is being pushed ahead as quickly as possible. We have the Porter-Allen engine which is to operate the machinery already in our shop and the dynamo is far on the way to completion, and as Johnson is giving the whole of his time to seeing that this equipment is rushed through you may depend that not a moment will be lost. We had the Paris machine running a few days ago for a short time, and a splendid sight it was to see the thing running. The dynamo is, of course, the largest in the world and will put into the shade every thing that opponents can bring both in the way of economy and efficiency. Yours will be if anything, better than the Paris machine, inasmuch as Edison will profit by his experience in the manufacture of the Paris machine, and if there should happen to be any slight defects in that they will be rectified so far as the London outfit is concerned. Our lamps are showing a wonderful record. The way in which Mr. Edison arrived at the conclusion that the life of the lamp was from three to four hundred hours is as follows. He would set up a number of sixteen candle lamps at about fifty candle power and run them at this state of incandescence until they played out. Now, of course, this was no fair test as the lamps are only made to run at sixteen candle and to run them at fifty would entirely alter the conditions. The first real test as to how long the lamps would last at sixteen candles is now being made. Up to the present moment they average about seven hundred and thirty hours each. One went

3.
out after burning seventy hours. Another went out at one hundred and sixty. Another went out somewhere in the neighborhood of three hundred. The fourth one has just died. The remaining six of the original ten lighted have up to the present been burning nine hundred and ninety hours. How long they will last, of course time alone can prove. The longer they do last, of course, the better is the average life of the lamp, and anyway it would appear that the average life will be considerably above one thousand hours. Those ten lamps were just taken out from our ordinary stock and therefore the average will be an absolutely fair one. We are watching this test with very great interest indeed. You will appreciate the very great importance of getting the life of our lamps as long as possible as it must considerably affect the economy of the system. The lamps in this building still hold out. As I have already told you, we lit up on the 24th. of March and not a single lamp has yet given way.

Telephone.

They seem a long time settling up that Edison Telephone Company of London liquidation. If you could send Mr. Edison the proceeds of the sale of his shares it would be of very great advantage to him at this time. What with his lamp factory, machine works, tube company and laboratory he requires a very great deal of money, and if he could collect what is due him on English Telephone rightaway it would save him some considerable anxiety. I will send forward the release which Renshaw sent us to be signed

4
by Edison and Johnson by next mail. I propose sending it to you
as there are a number of blanks that require to be filled in
and we prefer that the release should be in your hands until this
is done.

Very truly yours,

(Cassel)

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7/6/94

J. A. Edison Esq.
Dear Sir
I

am sorry to trouble you
about so small an ac-
count as mine but I
shall be very much
cramped for money next
week in fact I am
now and you would
exceedingly oblige me
if you would send me
the small amount of the
enclosed bill. A part-

if it has been running
5 months and the rest
over 2. My terms are
strictly cash. I do advi-
tize and there are not
over 3 private individuals
beside yourself that I do
not enforce this rule
with. If you cannot
send check by return
mail please write & let
me know how soon you
can

Yours really,
H.C. Cook
1st Aug 81
C. L. Cook
Middletown

New York, July 8th. 1881.

See also
"Telephone - Foreign - England" 65 Fifth Ave.
My Dear Colonel:- *and "Electric Light - Foreign - England"*
I duly received your favor of the 17th inst.

which I can assure you was very welcome. Glad you like the letters printed on the Type Writer. An expert type writer can write about three times as fast as with the pen. Of course I do not use a Type Writer. I simply dictate them and they are written off in a very little time indeed. I think that an expert operator on the machine can write about 60 words per minute. Besides it is not in the least tiresome.

English Telephone.

I enclose you herewith release to Mr. Alfred G. Renshaw duly executed by Mr. Johnson and Mr. Edison. I also enclose you a letter addressed to Mr. Price, the liquidator, by Mr. Edison. You will notice that in the release there are a number of blanks which require to be filled in. Mr. Edison said that he would prefer you hold the release until these blanks are filled in when you will kindly hand it over to Mr. Renshaw. I shall cable you to day "Renshaw's release mailed". I am glad to hear that you look forward to reaching an early settlement of the Edison reversion. When you do so I suppose we shall get to a final settlement of all our English Telephone matters.

Oriental Telephone.

Mr. Renshaw will have received long ere this a document signed by Mr. Bell and Mr. Edison. The cause of the delay is as

you state, namely, Mr. Bell's remissness in signing the agreements and sending them on to you. When may we expect a remittance on this account?

Electrical Congress.

The exhibits for this are being rapidly finished. So soon as an instrument is got ready it is shipped off to Paris. Most of the things will go on June 20th, on which day Mr. Batchelor expects to sail with the large dynamo and engine attached to Paris so that he will be there just about the opening of the Exposition, and will no doubt be able to light up about a fortnight afterwards. Every thing is being got up in splendid style, and Mr. Edison's exhibit will doubtless be the finest one there. It must add materially to his reputation and dispel the adverse criticism as to his never having done anything which one so often hears at home from people who know nothing about the matter, and consequently talk the more. Your electric plant is also being hurried forward as fast as possible. It will sail in all probability immediately after the one that goes to Paris and will be if anything superior to that one. You will have by far a finer engine as it is one made by the Porter-Allen people of Philadelphia. In your dynamo any little faults that it is impossible to rectify in the Paris machine owing to the want of time, will all be set right. Johnson hopes to sail early in August, probably about the 4th or 5th. He is now giving his whole time to hurrying up your plant. Mr. Fabiani will sail on Wednesday next. I am collecting for him statistics

that we have not got here in New York as to our proper working and also maps showing all the lights in the first district and another map showing all the power used in the district. These will be extremely interesting and at the same time very useful. I am also getting for him photographs of our lamp factory, machine works and laboratory which will be quite an interesting exhibit. I am almost tired of talking about lamps. That set of test lamps are still burning the last report being that they had lasted about 1050 hours. They have not had them burning much this week owing to its being holiday time, your fellow countrymen having been engaged in celebrating the defeat of the "blasted Britishers". There is really nothing much to report as to progress of matters here. Every thing proceeds very quietly, but at the same time rapidly towards completion.

Fruit Experiments.

We have had put up at Menlo Park a frame building capable of being taken to pieces and moved to the ground where we shall pack our first peaches. These peaches will be packed and put in carboys to exhaust right away so that we shall not suffer from their spoiling owing to their being kept several days prior to their leaving in the New York market. Mr. Hughes, who has charge of these experiments, will have everything ready to commence work as soon as the peach season arrives. Edison believes that peaches will be the best to deal with in the first instance, but I suppose as we get more into the true inwardness of the thing they will be

able to ship other fruits, and no doubt flesh and fowl without
having such disastrous results as your being affected by the
nauseous smells emitted from putrid chops and steaks.

Very truly yours,

(Gaskell)

New York

July 9, 1881

J. A. Edison Esq.

Dear Sir

A meeting of the persons
named in the Certificate of Incorporation
as Trustees of the Bond Indicator Company
of Europe, will hold a meeting for the
purpose of organization and such other
business as may come before the
meeting, at the office of Mr C. Goddard,
71 Broadway, Room 4th, on Tuesday
July 12, at 2 o'clock P.M.

Respectfully

C. Goddard,

T.

Wm. H. H. H. H.

Mr. Edison Dear Sir, I write
you some time since that
I had a lot of Indium²⁰
to dispose of. from 50. to 75.
I have been offered \$15.00
per oz should you like to
have it at an advance
on that if so please in-
form me what you are
willing to pay

Yours obliged
Yours Respectfully
H. L. H.

HATCH & FOOTE,
BANKERS,
12 WALL STREET, NEW YORK.
P. O. Box 3765.

July 13, 1881

Thomas A. Edison Esq
N.Y.C.

Yours Registered 45
I have arrived from Washington &
await your order.

Very respy
Hatch & Foote

RECEIVED AT POSTAL BOX, NEW YORK, JULY 16, 1881
 For Salby & E. FOSTER, M. D.
 (The City and County of New York, New York)
 New York and Philadelphia, Pa.
 121 Broadway, New York, N.Y.

July 16 1881
 Dr. Sir

You would
 very much oblige us if you
 would remit the amount due
 us as long as we do not
 carry accounts and it merely
 to accommodate them we send the
 due goods without cash in advance
 Yrs Truly J. E. Foster
 IV

J. W. WEXEL,
 13 BARCLAY STREET,
 P. O. BOX 312,
 NEW YORK

WEXEL & DEGRESS,
 ESTABLISHED 1885.
 NEW YORK AND MEXICO.

F. DE GRESS,
 ARMERIA AMERICANA,
 14 DE PLATEROS, NO. 5,
 MEXICO.

New York, July 19 1881

Dear Edition.

I arrived here
 about 2 weeks ago & have
 called to see you twice

If you will drop me a
 line care of Mrs. & I believe when
 you will be in town I
 shall take great pleasure
 in calling again

With kind regards to
 wife and family I remain
 Yours &c

H. E. Scandella

✓ X ✓ ✓ ✓ ✓ ✓
 9

SELF ADDRESS.
"GOURAUD, LONDON"

9, Lombard Street, E.C.

London, July 20th 1881

3 Grosvenor Sq
25 Fifth Avenue
New York

Dear Mr. Maull
Pond Indicator

Your remarks about
the Pond indicator are
very interesting but it
seems to drag behind
so much that I am
afraid it will be superseded
before we get the benefit of
it. DeLaney is coming over
here with a self-regulating
switch. It seems Fitzgerald
has taken it up. This
I expect to see in Paris
and will let you know
about it.

Yours truly,
Gouraud

Gouraud
General

20th July 81

G. S. G.

G. S. G.

Pond Indicator

HATCH & FOOTE,
BANKERS,
12 WALL STREET, NEW YORK.
P. O. Box 3766.

July 23 1881

Thomas A. Edison Esq.
65 5th Ave

Dear Sir We have
recd. Thirty thousand Dollars
(30,000) @ 4% U. S. Bonds.
from Washington for you. Please
call and oblige

Respy HATCH & FOOTE
J

6 Lombard Street, E.C.

London: July 30th 1881

Samuel Inoull Esq;
65 Fifth Avenue,
New York City

Dear Mr Inoull I have to thank
you for your interesting letter of
July 28th. and am much impressed
by what you say regarding Edison's
prospective exhibit in Parks. I am
going over tomorrow to attend the
opening of the affair in my official
capacity. I shall only remain a
week. There is too much to do here
to take any holiday. I shall hope
to find Batcher there with all
his paraphernalia and shall take
good care that he has fair play.
fruit experiments. Your
remarks upon this nearly savours
of an accomplished fact. It appears
that preparations are being made
on a very business-like scale, tho'
I shall feel some doubt the
investment until I see some
tangible results. I shall feel
obliged if you will cause to be
sent me by return of post, a
complete statement of the items of
expenditure upon this exp. I feel
somewhat doubtful of the expediency
of any large shipment of peaches.

until I have seen ² something less
perishable safely transported.

I have already received a large number of cases from London light plant and I have been busy with Mrs. Labri for some days organizing preparations for Johannes's arrival.

In writing further upon the subject of the fruit experiment or any subject of special importance otherwise than a mere general conversational letter kindly write only on one subject in the same letter. In order that I may keep my files straight kindly discriminate between your personal letters and letters written specially at Edison's request - as signing the letter with Edison's name and your initials where he has not time to ~~write~~ sign himself.

Yours truly

Yours truly

[Faint handwritten notes, possibly "Lancaster"]

7. *Angus* 12
 8. *Angus* 12

Chirografo

Il Ministro d'Italia per
l'Istruzione, vista la vostra
lettera, mi scriveva:

"La risposta d'Edison onora
Voi e l'Italia

Al Conte si aggiungerà in fine:
Edison, salve! Sempre in te fidante
dirige la nave del felice ingegno
nei misteriosi flutti de la scienza
dove si belli i tuoi vestigi imprimi.

Edison, salve! E il giovane mi loda
più sublime si desti a celebrare
nuovi trionfi nel pugnar dell'Arte.

S. Damiano d'Este

30 Luglio - 1881

Illustra Signore,

La vostra lettera mostra
in voi modestia pari al genio e
accorda a voi l'ammirazione del
mondo.

Alcuni illustri uomini, che
hanno veduto la vostra risposta,
mi consigliano a far ristampare
il Conte in un'edizione più
elegante e mandarlo nelle
principali città d'Europa
e d'America.

Ed io presento a Voi il primo
esemplare della nuova edizione,
dove è inserita anche la vostra
lettera.

Occorrono almeno 2000 copie,
del prezzo di lire Italiane 500.

Le mie condizioni finanziarie
mi permettono solo di spendere
lire 200. Le altre lire 300
oso chiederle alla Vostra
Generosità.

O Signore, grande è in
me l'amor della gloria
e il desiderio di veder celebrato
pel mondo il vostro Phonographe.

Abilitatemi dunque a
soddisfare questo desiderio
Voi, che siete la parola
degli uomini.

Continuatemi il vostro
amore.

Sporo che mi favorirete
prestamente una risposta.

Vostro Ammiratore.

Professore Pietro Giovine

(Italia - Piemonte) San Damiano d'Albi

See also "Tint Preservation"

New York, August 7th. 1891.

65 Fifth Avenue.

Col. Geo. E. Gouraud.

and "Telephone - Foreign - England"

London, England.

My Dear Colonel:-

I have been sending you newspapers containing quite a lively warfare between us and our opponents. I send you by this mail a complete set of these newspapers together with any other you may not have received up to date. I think these will prove of very considerable value to you as the statements made by Major Eaton were very carefully weighed before they were given to the reporters and may consequently be taken as absolutely reliable. If Mr. Tabbri has not got those papers as well would you kindly show them to him.

Your plant is being pushed ahead as quickly as possible. Johnson is making his arrangements to sail some time the end of this month. Whether he will get off by that time I cannot absolutely say but will no doubt be able to let you know next week.

English Telephone.

We were very much in the dark about what you had done as to the London reversion. We could not at all understand how it was that there could be a mistake of about six or eight thousand pounds in our calculations as to how much was to come to Mr. Edison. As he has already written you we simply went on your own statement and the information supplied by me which was substantially the same as that which had been written by you inasmuch as I told Mr. Edison the result of our frequent discussions on the matter prior to my leaving London.

As to European Telephone we presume that your last combination must have fallen through as Mr. Roosevelt told us that he heard from Gower that it was an even chance as to whether the company was floated or not successfully in consequence of the action taken by Hubbard. If you have not already done so will you kindly upon receipt of this write us upon the matter as when ever I go down town the European Telephone Directors put a lot of inquiries to me as to what you are doing in Telephone and as I have no reliable information I am obliged to confess absolute ignorance which does not seem to please them very much.

The documents you want as to Oriental Telephone are now being prepared. We are going to try and give the Oriental Company a clear title to Australia. Edison has a memorandum agreement with the Western Electric Light Manufacturing Company and although their agent, Mr. Wells, has been back from Australia some considerable time he has not been up here to impart any information to us and we know he has been equally remiss in giving an account of the royalties due. We know that there must be something coming to Edison as exchanges have been established in several cities in Australia.

I suppose ere you receive this you will have seen the various exhibits sent to Paris. I am sure you cannot but be proud of your connection with Edison when you see such a splendid array of his various inventions. It would no doubt be gratifying to Mr. Edison if you were to write him what you hear as to the opinion of English electricians and scientists upon his exhibits. He has made this collection of his various inventions at very

great expense indeed to himself. Cannot you influence Conrad W. Cooke, of the Engineering, to write them up thoroughly for that paper? Will you please see that we get all English papers containing any notice of Mr. Edison's exhibits as I want them for filing?

Very truly yours,

(Insell)

P.S. I am running up quite a little bill for shorthand expenses as my time is so much occupied that I have not an opportunity to write you in any other way. I presume you are good for this however?

(Insell)



WOODRUFF BROTHERS, Proprietors

Sullivan, N.Y. 8th Aug 1881

Dear Sir:

We desire some means by which we can remove particles of metal from our button stock we have used a magnet with some success but it is not entirely satisfactory.

We think your Ore Separator would perhaps be the thing wanted please give us some information with regard to cost - power necessary to run &c &c and oblige

Yours truly

J. R. Edison Eng
Muncie, Ind.
N. J.

Woodruff Bros
J. R. C.

Acad

Windsor Park. Aug. 7th/81

Friend Edwin

As I mentioned
to you while here, I am about
to open a Telegraph School. The
prospect is quite flattering.

I have nearly fitted up
for the School. And require
about half doz Batteries, and
my means about exhausted.

Would you be kind enough
to loan me the Batteries, until
I can make enough to purchase
some. I will take good care
of them & see that they are
returned as soon as I can
get mine.

Please send some
on enclosed card

Yours, C
Wm. M. Hursey

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Library
Aug 9. 81

6, Lombard Street, E.C.
London, Aug 11th 1881

J. Addison Esq-
65, Fifth Avenue,
New York City,
U.S.A.

Dear Sir

In accordance with Mr. Marshall's letter of 11th July I have had the patent entered, carefully searched thro, and obtained six copies of all your British patents, also six extra copies of all your British light patents. I find that there are in all ~~the~~ patents, exclusive of two, issued in 1881 of which the specifications are not yet published. I have had one complete set of these, and one set of the light patent bound in two volumes as requested by you; which shall be forwarded to Mr. Batchelor in the course of this week. The remaining copies I have sent to you per the Steamship Algeria of the Inman line, sailing on Saturday next. I have not yet received the cost of this but as soon as I do so will inform you of the amount.

Yours truly,

J. R. Pigg
Secy

J. H. Dole
JAMES H. DOLE, President,
4 IRVING PLACE, CHICAGO,
JOHN P. DOLAN, Secretary.



CHICAGO, Aug 9/1th 1891.

Thomas A. Edison, Esq.,
65 Fifth Ave. New York.

Dear Sir:

I thank you for your kind offer of some lamps in your favor of the 9th inst. I will do the best I can with them and if they do not do as well as they did at Menlo Park when I was there I will simply exhibit them and any thing else you may wish to send me. If you furnish me a Show Card I will hang it in a conspicuous place with them. Is there any way to modify the Current of the Brush or Weston Dynamo Machine to make it suitable or how many Cells would one require? What is the Amperesistance of a lamp? Yours Very Respectfully
Jose. P. Ella cott, Supt. Machs.
State Industrial Exposition

WESTMINSTER HOTEL,

16TH STREET, EAST OF UNION SQUARE.

W. G. SCHENCK, Proprietor

New York, _____ 1884.

16 Aug

T. Edison Esq

Dear Sir
and Magician

- Don't you forget
me this evening -
or I KILL you
(in the rear) 24th St
at 8 $\frac{1}{2}$

V. J. Blum

Miscellaneous

Phoebe B. Connelley

17th August 81

No 4 East 86th Street

August 17 1881

My Dear Edison

I wrote you a few days ago asking you to let me know when you could call at my residence. You need not bother about it now, but if you will let me know what days and hours you are at your office I will call in there.

Yours faithfully
Thomas Edison

Ans

AGUSTIN EDWARDS,
PRESIDENTE.

SANTIAGO MARTIN,
VICE-PRESIDENTE.

JOSÉ D. HUSBANDS,
SECRETARIO Y DIRECTOR GENERAL.

DIRECTORES: Agustín Edwards, Pedro A. Maculillar, Vicente Barria Cruz, Santiago Martín, José D. Zuehlke.

Compañía Chilena Telefonos de Edison de Valparaíso.

OFICINA DIRECTIVA

CALLE PRAT, NÚMERO 78

Valparaíso, August 17th do 1881.

Prof. Thomas A. Edison

New York City.

My dear Mr. Edison!

I would like one of your magnetic or separating machines more especially for crav in black sands. Any terms agreeable to you will be acceptable to me. Also mail instructions regarding the same. I am very anxious to receive a letter from you, as I want all questions settled between us, so far as I am concerned there never would be one, unless caused by yourself my written & spoken promises having fulfilled to the letter. I will take pleasure in serving you in any manner that will not force me to take a step backwards, as would be the case if I were to operate through New-Hendall Co. I do not doubt our equal in this line of business on this coast, at least at present until until others have broken in both themselves & their employees to the needs of the business.

I am very dear sir truly yours friend

José D. Zuehlke

Miscellaneous
WESTMINSTER HOTEL,
191, WESTMINSTER STREET, EAST OF UNION SQUARE,
NEW YORK, Aug 19 1881
Ed. Remond
Thomas Edison Esq
New York

Dear Sir and Friend

Since I was with Victor Hugo
and List I never was so
much in ~~the~~^a intellectual
heaven as "day before yes-
terday" — I was wide awake,
still I was in a dream-
land, and I want to remain
there and to nourish myself
on that heavenly food —
and in the same time
I do not wish to be

so terribly in debt toward
you - otherwise I will be
soon bankrupt - therefore
prepare yourself immediately
- if not sooner, to a musical
assault on your doomed
head - and then, only then,
we will be even. -

My most affectionate
regards to that sympho-
netic straightforward
luminary - Johnson -

Your affectionate f. Remy

Looking at your photo - I invent
also all sorts of melodies - you bet.



WOODRUFF BROTHERS, Proprietors.

Auburn N.Y. Aug. 19th 1851.

Mr. S. H. Edision,

Dear Sir,

In reply to your favor of the 16th we beg to say that our button stock is finely ground mineral; occasionally pieces of knittle get into it, broken files in small particles, nail etc. and they cause us much trouble. In our dies we use probably two or three times a day, and in this time would possibly be half a pound of metal, and perhaps none at all. We have used magnets but they do not take out all the metal whenever metal in the stock coming thru by accident. Our thought was that by using separators of the smallest size it would be sufficient for us and would overcome our trouble. Should you still desire it we could send you some of our button stock.

Hoping to hear from you very soon we are

Yours Truly,
Woodruff Brothers

✓ 3 2 4 2 ✓ 2 2 2 2
- 2 1 2 2 2 2 2 2

Cecilia Mullins
19th Aug
Woodcut No
11

T. A. EDISON,

Menlo Park, N. J.,

Aug 28th 1881.

My dear Sewall I enclose
an answer to an en-
quiry made by me
of the parties in
Philadelphia, to whom
the fruit preserved
by the Society pro-
cess was assigned.
Please show the
enclosed to Mr
Edison. Please let
me know whether
you are coming out
Sunday. Better send
to Rahway as I am
there later and I
will call for it
Yours Truly
James Hughes

Chula Aug 24th 1881
 Chas I Hughes Esq

Dear Sir - Your favor 23rd inst
 at hand. Contents fully noted - About
 July 4th we received a Garload of California
 Fruit Consisting of Peaches - Apricots - Plums
 and Pears. These were packed in Cartons of
 sheet pulp - or straw - there was put in a
 Gar - and when on arrival found the
 temperature very high - and much of the
 fruit badly heated - and consequently
 unsalable - We think this material
 is not suitable for the purpose
 being of a heating character - and it
 clings to the fruit - requiring them
 separately to be brushed - We should
 say the Pears came the best - the
 Peaches and Apricots - being "the most
 condition" We think it well near from a
 success -
 Yours truly
 James M. Smith



Aug 26th 91.

Sir

Mr Sims has just

shown me your photo with
autograph attached. Now this is
all very well as far as it goes
but it not being divisible, it does
one part of the favor. No good. Please

Send me

Yours truly,

Almon E. Sims

Almon E. Sims

M.



WESTMINSTER HOTEL,

16TH STREET, EAST OF UNION SQUARE

W. G. SCHENCK, Proprietor.

New York, 29th Aug 1881

Dear good Mr Edison
Don't fail to come
Tuesday - 30th
tomorrow evening
at 9 o'clock —
private entrance
24th Street
I will be there
to receive you
— Don't fail to
come sure — you
will hear fine

Miscellaneous

29th August

Ed. Remenyi

tell Mr
Johnson to come
with you - bring
as many with
you as you
like

— affectionately
admirer
and admiringly
latively admirer
Ed. Remenyi

~~Mr. William~~

Sept 5-81

Menci

Answer

Stapleton P.O. box 105.
Staten Island N.Y.

Sept 5. 81.

Thos. Edison Esq. Sir-

I was
much surprised at not being
able to see you, on either
of the two calls, which I
made upon you, at your
own solicitation; likewise
much disappointed, as I
had brought with me a
gentleman to act as in-
terpreter, so that whatever
might have been said, would
have been understandingly
rendered to each of us.

I should you desire.

To see me, name your
time and place, giving me
two days previous notification,
so that I may serve the
gentleman again -

I am
Yours Resp.
Antonio Menéndez -

Edison Personal -
Early acquaintances

~~Am. Milling~~

Mr. Gregor

Richmond Sept. 10/81
Jas A. Edison Esq.
Meads Park
New Jersey

My Dear Friend

This Note from Mr. May seems
Out of Place and strange to you
Coming from my as it does, but
yet it is real. Your own adventure
and prosperities are familiar to me
to me. Although I must confess
this untill two years ago when
I was out in Nevada building
the Nevada Central Ry. The Chief
Engineer of the Road made the
remark to me after reading an item
in the San Francisco Chronicle
"What a wonderful man you was even
untill then I did not know that
you was the same person that I knew

On the S. T. R. the cause of my out-coming ^{was} by the
the person ~~was~~ I use to know ^{was} by the
name A. E. Edison. I was not aware of
your name being ^{Edison} Edison.
Now I am pleased to know the difference
Your old friend ^{Alfred} Stevenson & Co.
Conductor A. M. is here with me today and
has been since 22nd day and is starting
for home in 3 days from now. I sent
for him to come out here, or rather
recommended him to come out here &
and he came and joined in with
me in the Mining business and we
decided ~~to do~~ with me for a certain
interest now as you will see by a
new paper from our town which
I mail to you by today's mail. We then
which will give you some idea
of our prospects which we have
put into a stock company
and I am prepared to give you any
show if you will help us to put

stock on the market. We have as
good a prospect as there is in this
Mining district but our means
means are few and but little known
for now if you will help to me to make
this company a success I will
make you a present of my own mining
and stock of 1000 shares at
\$10⁰⁰ each = \$10,000⁰⁰ and I
can put a good number
or rather I can give you
a good show out of our
development stock. and
I am told by experts that we
are wanting mineral on our
dump that could be successfully
located by some process of
ours. Now my dear friend ^{Alfred}
excuse me for this long but it is all
true and I would be pleased
to have some eastern capitalists
and experienced men here

they arrive, this property
before converting. I know that
if you would take hold of this
property with me that you
would make it worth your
own while and it would also
pay me and those interested
with me to be liberal with you
I hope you will have the kindness
to answer this mixed up scribble
hoping this may find you well
I conclude with best wishes for
the ~~best~~ promotion of your property
I remain your sincere friend

Wm McKee. ^{25 Grand Avenue}
P.O. Box 57, Buckenlopp ^{24 12 02}
County Colorado

6, Lombard Street, E.C.
London, Sept 10th 1889

J. Aldison Esq.,
65, Fifth Avenue,
New York.

Dear Edison.

A number of your letters have been much delayed in acknowledgement owing to my absence from London for several weeks of much needed rest, which to the end of more effectual security against the intrusion of any unnecessary business took in the form of a driving tour thro England and France, by way of Normandy, to Paris, where I remained a few days only. I am now back much refreshed. Most of your letters referring to specific subjects I shall reply to separately, limiting this letter to the above explanation of my apparent neglect, and to compliment you upon the glorious exhibition you are making in Paris. Much as I expected I was more than agreeably surprised. The light is impressively beautiful and I am ~~without~~ awaiting with much impatience its introduction here in London. I have no doubt from the elaborate regard for detail as applied to the whole system you are far ahead of all others in the same line, whether they are imitators or not. Notwithstanding all this I cannot but think however that you have lost very

2

considerable prestige, by delaying the introduction in any form of your lamp until you can introduce it as an entire system. So many thousands of people have now seen the so-called Swan and Lane-Soy lamps, that when at last they see yours, they at once say "Oh! it is just like Swan's, or Maspin's." In this connection I am more than delighted to learn from your letter through a letter to Hur Eaton, that you have at least determined to go in for as extensively as possible for the isolated plants. If this policy is vigorously pursued you will soon recover whatever ground, if ~~any~~ has been lost. I think it is Johnson's intention to bring one over here, for my country-place. I hope this is the case. I shall spend several weeks in Paris later on, when everything is in full blast, and the gardens are at work, when you may rely upon my looking as carefully as possible to your interest.

Again congratulating you upon what seems to be more than a realization of your sanguine promise of long since with regard to what your light would be,

Believe me,

Ever yours,

W. H. Burr

P.S. I am asked on every hand whether you are not going over to the Exhibition. I think it would go an enormous way towards helping us to any development of the light if you would just take a run over, if only for a few weeks, and the change would do you good. Think of this.

Ans'd
Sept 25th 81

C. Lombard & Threlk. & Co.
London, Sept. 10th 1881

Thos Edison, Esq,
65 5th Avenue
New York

Dear Edison

Electric Accumulator

A tremendous amount of
stir is being made over Saure's or
Plante's, whichever it is, accumulator.
Movements are on foot as can be
traced thro' the manipulation of the
newspapers, to make a big thing of it.
One hears on every hand, doubt expressed
~~on every hand~~ as to the validity of the
patent, and again that "Brush has got
something" which is far better. Now I
think there is no doubt (subject to your
correction) that there is some degree of merit,
whatever the degree may be in the idea
per se of an accumulator, for many
purposes, and the object of this letter is
to ask you to just give a little thought
to the subject, and let us have an
"Edison accumulator." If as I understand
it is your opinion that the Saure
accumulator is but a modification of
the Plante I feel certain that the
Edison modifications of the Plante would

be far better, and we could run it to
 great use and advantage. Let us have
 one anyhow and I am game to run it
 for you on the usual terms. Let us protest
 it of course. Please give this matter early
 consideration as it is certain to result
 to our mutual advantage.

Yours faithfully,

OK
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

T. A. EDISON,

Menlo Park, N. J.,

Sept 10th 1881.

Mr. S. Newell,

Dear Sir,

The Engine
Mercury Pump and
Pulley Shafting Hang-
-ers &c will go to
New York by the
Freight train, con-
-signed to J. S. Andrews
16 North River
There are besides the
Engine and Boiler
four boxes.

Yours Truly

Chas. S. Hughes

Miscellaneous
Sept 13. 81

Remony

Belvedere House.
18th St. 4th Ave

N. Y. City

17. Sept-1881

Dear Mr. Edison.

Tuesday-Wednesday and
Thursday are my
last days and also
nights at K. and Bialy
in N. Y. - You have
oooooooooooooooooooo
all sort of business on
your shoulders
I have also 1000 things

to do - still if
I could meet my
Hero, and shake
hands with him
before leaving
the metropolis -
how glad would
I feel - make
it possible

Ever yours
with all my
best affection

W. Fleming

Stevens Institute of Technology.

DEPARTMENT OF ENGINEERING.


Hoboken, N. J.

Sept. 14/88

My dear Sir: Should it
become best for me,
after a time to take
of a little work out-
side my study and
should you need
the services of a con-
sulting engineer in
matters familiar to
me I shall be
glad to act in that
capacity with you.

Very truly
Yrs.
P. H. Thurston

T. A. Edison, Esq.

| | | |
|--|---|---|
|  | \$6349.00 | 11 New York, Sept 15 th 1888 |
| | Four Months | after date I promise to pay to |
| | the order of the <u>Comptroller of the City of New York</u> | the order of <u>J. M. Smith</u> |
| | Twenty Three Hundred and 49/100 | Forty Nine 1/100 Dollars |
| Value received, | Thos A Edison | Jan 15 |
| No. 1918 | Jan 15, 82 | |

U.S. Patent Office

THE EDISON ELECTRIC LIGHT CO.,
35 FIFTH AVENUE.

New York,

16 Sept 1881

My dear Mr
Edison

Good bye

E R. Mendenhall

I am off for Chicago
this evening —

My permanent address is:
Gr Pacific Hotel
Chicago
Ill.

Executive Committee for Relief

E. C. CARLETON, Mayor, Chairman.
 H. G. BARNUM, Cashier in Nat. Bank, Treas.
 M. H. ALLARD, Secretary.
 G. D. CONGER, U. S. Senate.
 W. L. BANGS, COT.

WILLIAM JENKINSON.
 HENRY HOWARD.
 JOHN CHAMBERS.
 JAMES MOSFAT.

Port Huron, Mich. 9/24 1881

Your favor of _____, with remittance of \$100 —
 for Relief of Sufferers by the fires in our neighborhood, has been duly
 received. It will be faithfully applied, and will also be acknowledged
 in our local paper.

Many thanks,

W. H. Allard

Sec'y of Com.

Plainfield 22 Sept 81
 T. A. Edison Esq
 Sir

A meeting of the
 Stockholders of the Union & Middlesex
 Coal Min. Co. Assn. will be held Saturday
 Sept 24 at 6.30 P.M. on the grounds
 for the purpose of amending the by-
 laws so as to decrease the number
 of pretickets to which Stockholders
 are entitled, such a course being
 necessary for the welfare of the
 Assn. I send a form of proxy
 which if you will sign & return, you
 will confer a favor

Yours re

Ed Pearson
 Treas.

MANAGER'S OFFICE.

HUMANE LIVE STOCK EXPRESS COMPANY,

2 Wall St.

New York,

Sept 22^d 1881.

Friend Edison.

I send you a statement in writing and printed matter that will enable you to reply to any questions that may be put, and which you so kindly offered to answer if I could fully inform you. If there is anything not made clear please advise me and I will try to make it plain.

The small circular is marked 'Confidential' as we deem it inadvisable to show R.R. Co.'s how profitable such business may be made. Still we get our contracts complete fearing they might want more than the 12¢ charged upon.

This matter has been laid before me many times today and should be consulted. I trust you can justify your is a loss -

Res. Sincerely
Prof. Thos Edison
65 4th Ave

Edw Davis

Res. Sincerely
P.S. You will see who the pushers are in large circular enclosed.

Humane Live Stock Express Company

Office of the General Managers

No 2 Wall Street

United Bank Building

New York, Sept 22^d 1881

Thos Edison Esq
65 Fifth Ave, N.Y.

Dear Sir:

Enclosed herewith please find circular printed for, private information of Stockholders in our Company, that gives the requirements and profit of the business of feeding and watering Cattle while in transit East of St Louis & Chicago.

There will be required to be the worst twenty Stations, but it must be born in mind that, out of our fifty thousand miles of Stock lines in the U.S., only about one fifth is estimated in estimate made. The long reaches of roads East of the Miss River & Chicago and the Northwest, one who's line the great cattle trail is collected, and centered, being far greater than in the East, and even more in need of our system, as they have no stock yards for relief.

Our Co is capitalized at \$5,000,000. in fifty thousand shares of \$100. Each. of this Capital stock twenty thousand shares remain in the Treasury, to be sold only for working Capital.

Humane Live Stock Express Company

Office of the General Managers

No. 2 Wall Street

New York,

1885

United Bank Building

as it may be required. The remaining thirty thousand having been paid for the patents, under which we operate, and such stations as are already under way, are now being shipped to St. Louis, and then men started, and also provides a stock fund out of which R.R. Officials, with whom we will come in direct contact, may be sold at a nominal figure, making them interested, and thereby even hearty co-operation; this being deemed advisable in addition to the payment of 10% to the R.R. Companies.

Our first line will be built at a cost of about \$5,000. per station, as it will be, as it was, experimental, but when fully equipped, with grain mill, shed, boiler, engine &c will require an investment of about \$10,000. for each station.

It is proposed to secure additional capital for our first line to the South-west via Erie Railway overland to St. Louis & then via R.R. to Texas, which is to practically demonstrate the workings of the Single System, by the sale of one thousand shares at \$25. per share.

Humane Live Stock Express Company

Office of the General Manager:

No 2 Wall Street

United Bank Building

New York, _____ 188__

Commission for the sale will be allowed and every effort made to secure the purchasers of all portions of it against loss, as well as to render the transaction advantageous to the investor. With the money thus secured the first stations will be put in operation within a month.

It is confidently believed that the feeding & maturing of Cattle by this System will be so simple and efficient, as well as economical, that the plan will, as soon as it is seen in operation, commend itself to all persons interested in stock transportation, and no difficulty will be encountered in securing authority to erect Stations wherever they may be required. Thus advanced the Stock of the Co can marketed without delay and all money needed readily secured. When Stock remains unsold in the pens, after the system of Stations is completed, will, of course belong pro rata to all Stockholders.

Yours respectfully,
E. W. Sears

$\mathcal{H}^1(\mathbb{R}^n) \cap \mathcal{H}^1(\mathbb{R}^n) = \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \cap \mathcal{H}^1(\mathbb{R}^n) = \mathcal{H}^1(\mathbb{R}^n)$.

JAMES H. POLK, TREASURER.
J. IRVING PEARCE, TREASURER.
JOHN P. REYNOLDS, SECRETARY.



Chicago Sept 28th 93
Thos Edison Esq.
Dear Sir

Some time
ago you promised to
send some lamps
if I wished them to
show or use. I answered
that I would like some
If you will please send
some I will show them
for you on display here
able to do them

but would like them
 as soon as you can
 send them to me.
 Yours very Respectfully
 J. P. Elliott
 Sept 24th 1895
 at 1000 Madison St
 Chicago, Ill.
 at 1000 Madison St
 Chicago, Ill.

Yours truly
 J. P. Elliott
 1000 Madison St
 Chicago, Ill.

August 1895

1000 N. MADISON ST. CHICAGO, ILL.
 1895



49
No. 44. HALF RATE MESSAGES. *MS*

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS AND DELIVERS messages only on condition, limiting its liability, which have been agreed to by the sender of the following message.

It is the sender's responsibility to ensure that the message is properly interpreted, and that the message is an UNREPEATED MESSAGE and is delivered in full to the intended recipient.

A. H. BOWEN, Sec'y. NORVIN GREEN, President.

Dated Detroit Mich 29 1881

Received at WESTERN UNION BUILDING, 100 Broadway and New Street.

To Romeo A. Edison

READ THE NOTICE AT THE TOP.

65 Fifth Ave
NY
will reach New York
Saturday night. Thank
you for remembering
P.A. McCarty

9 Party
body

FIFTH AVENUE HOTEL,
MADISON SQUARE, NEW YORK.
HITCHCOCK, DARLING & CO.

NY-10-1-81
My Dear

I arranged with
Antwells yesterday before
he went home to decide
he has no offer of a
retainer & will see him
soon & arrange for the
\$250 -

He is wanting the
U.S. ^{State} Department
by Clifford Scott & if he
feels that it will prevent
him from doing any good
if he gets the money now
I'll wait & see how it
comes out -

FIFTH AVENUE HOTEL
MADISON SQUARE, NEW YORK.
HITCHCOCK, DARLING & CO.

2

I have written Gaskin
at Utica. He is quite
unwell & may not
come down to convention
next week.

My

Yours
Stanley

Miscellaneous

Oct. 3. 81

Mrs. Ayer

Milford, Del
Oct 3rd 1881

Mr. Edison;

A year ago, quite long
I wrote you - asking you for
assistance in relieving a poor
old blind lady - who is now 82
yrs - You at once kindly responded
and sent a ch. for ten dollars -
which was the first assistance
I received - so encouraged "you", I
then went to work & got up a
Pavlov Concert - and raised \$20.00
which with other assistance has
enabled her boarding kept her
out of the almshouse, ever since -
Now to give her a little more,
I am thinking of giving a
garden party for her benefit.
One of our ladies like

to assist me again in this
worthy person - it would be
very gratefully ready. she is
such a good, friendly old lady - and
anxiously awaiting for the time
will to call her home.

If you remember in your
note to me - your sister it seems
requires the amount of a Vanderbilt,
and you to give to all who ask of
you, which I do not doubt.

Therefore appreciate the
compliment, you should
favor my note. Should you
come over our town - and would
be pleased to see you

Very Respectfully

Ans. A. B. Taylor
Bridford
Delaware

May 43-

Paris Exp

Oct 3, 81

Moses

41 Rue de la Victoire.

Paris, Oct 3.. 81

Dr. J. R. Edison

65.. Fifth Avenue

New York. Etats Unis.

My dear Sir:

Mr. J. G. Guimarães, the
most efficient Agent of your Pond
Indicator Co. (at whose office I wrote
this), suggested a while ago that his
Company owed Count de Moncel
some token of recognition for the
very handsome way in which he de-
scribed the Indicator &c in La
Lumière Electrique. I am in-
clined to think the same about
the article on your Light. How
gladly it do to present him some-
thing of characteristic nature
in silver, and have a suitable

dedication engraved upon it?
I don't think it would be in
bad taste.

In haste, truly

Faithfully yours,

Otto Salloves

Miscellaneous
Request a meeting

Mumbai Oct 10. 81

D. U. S. Cable Coy's Office
Broad St

5. 10. 81

My dear Sir,

I arrived this
morning from England
I am only on a short
visit. I should like
very much to see you
before leaving & shall
be glad of a note
saying when I can
call on you.

Yours Sincerely
Alex. Muirhead

T. A. Edison Esq.

Humane Live Stock Express Company
Office of the General Managers
No. 2 Wall Street

United Bank Building

New York, Oct 6th 1881

My dear Edison:

*I want to drop down again on Stevens but
thought best to find out first if he had
yet sent his man up to see you regarding
our matter - will you kindly advise me by
return P. oblige*

*Prof. H. Edison }
65 Fifth Ave }
City }*

Yours very truly
S. W. Sears

?

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS AND RECEIVES messages only on condition, limiting liability, and the Company shall not be responsible for messages sent by the sender or for any delay in transmission or delivery of the message.

THIS MESSAGE IS AN UNREPEATED MESSAGE and is subject to change by the sender under the following conditions:

A. R. BOWEN, Secy. H. V. HORTON GREEN, Pres.

Dated Victoria Hotel 1881.

Received at 781 BROADWAY Cor 6th

To L. N. Edison & Samuel

Inaull 65 Fifth Ave

Mr Wendell ma party

will be at your

office seven this evening

please arrange to

meet them

W. H. Graves

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

781 BROADWAY, near Tenth Street,

IF THERE IS ANY REPLY, SHOULD BE SENT.

Direct Wires.

READ THE NOTICE AT THE TOP



WOODRUFF BROTHERS, Proprietors.

Auburn, N.Y. 14th Oct^r 1881

J. A. Edison Esq

65 Fifth Ave New York

Dear Sir: Referring to our
letters of the 8th and 19th of August and
your reply to the former we enclose
with this a sample of stock with piece of
metal in it as it came from the die
which has been injured by it. We also
send you by Express today to 104 Greenwich
as requested in yours of the 16th of August,
a small package of our button stock as we
use it and in it will probably be some
small pieces of metal. The problem we
wish to solve is how to remove them before
it is made in sheets by our steam rolls.

Hoping to hear from you we are
Yours truly Woodruff Bros & Co.

E. Mehin Wks

Oct 13. 81

Woodluf Bros

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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This message is an UNREPEATED MESSAGE and is delivered by request of the sender under the conditions herein shown.
A. R. BREWER, Secy.

Dated *10/11* *1881* *17* *1881*
10/11 *1881* *17* *1881*

Received at **791 BROADWAY.** *Oct 17*
To *Thos C. Edison*
Co Fifth Ave NY
Mr Frank and Mrs
Moyses will meet
you tomorrow Tuesday
evening eight
answer if satisfactory
W. A. Graves
10pd ma

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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This message is an UNREPEATED MESSAGE and is delivered by request of the sender under the conditions herein shown.
A. R. BREWER, Secy.

Dated *10/11* *1881* *17* *1881*
10/11 *1881* *17* *1881*

Received at **791 BROADWAY.** *Oct 17*
To *Saml Knoll*
Co Fifth Ave NY
If you are down
tom call today see
telegram to Edison
W. A. Graves
11 paid ma

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

[FROM SAMUEL INSULL]

Oct. 10th,

Mrs Anna L. Myer,

Milford, Del.

Dear Madam:--

I beg to acknowledge the receipt of
your two notes asking for assistance from Mr. Edison
on behalf of a blind lady.

Mr. Edison finds it quite impossible to
answer all the calls upon his purse made on behalf
of Charity, and regrets very much that this time he
must refuse you.

Yours truly,

[FROM SAMUEL INSULL]

Det. 18th,

Col. Stuart Wortley,

Care G.R. Blanchard, Esq.

16 Fifth Ave. N.Y.

Dear Sir:--

I beg to acknowledge the receipt of your letter asking if I am staying in New York. I am to be found here most evenings after 7 o'clock and should be happy to see you when you can make it convenient to call.

Yours truly,

Patent Office Museum,

South Kensington, W.

188

From Colonel Stuart Wortley
Prospect House
Niagara Falls
Ont.

My dear Sir,

Kindly let me
know if you are in New York,
This Friday, call on me -
I have had the pleasure
of seeing Colonel Gouraud in
London - & just before
coming away, I got out for him
a complete set of your speci-
fications.

I shall be here
till Saturday - then at m-
G. R. Blanchard's 16 Fifth
Avenue.

Very faithfully,
Stuart Wortley.

Oct. 18th,

James Gibson Esq.
James Gibson Esq., Esq.

Vanity Fair, London,

Dear Sir:--

I remember in the early part of 1879 when I was acting
as private secretary to Mr Edison's agent in London that you were
anxious to obtain a Vanity Fair portrait of Mr Edison. We wrote
to Mr John Nast to see if we could get one for you but for some rea-
son or another he would not take it out.

There is a young man here who has been quite successful
in making a portrait of Mr Edison, and he seems confident that he
could produce something worthy of Vanity Fair.

If you care to have a portrait now for your paper it
will afford me very great pleasure to do what I can to assist you.

I came out here about six months ago to act as Mr
Edison's private secretary. Since I left London I understand
that a young man who used to do short hand work for me some time
before I left London, does work for you in the evening. I hope
you find him perfectly satisfactory. His name is Jane, and he
is undoubtedly a good short hand writer.

Yours truly,

W. H. Gibson

Oct 18 1881

James Gibson Esq. - James Gibson Esq.

[141]

~~Western Union~~
AMERICAN DISTRICT TELEGRAPH CO.

Executive Offices, 62 South 5th Ave. Oct. 1981

E. W. ANDREWS,
PRESIDENT.
SIDNEY W. GROFUT,
SECT'Y & TREAS.

Wm. F. CHESTER,
Gen'l. Supt.
W. E. HUNTINGTON,
Asst. Supt.

Broom

New York, Oct. 19 1881
T. A. Edison Esq.
Dr Sir

Enclosed please
find some clippings from Truth
which you must acknowledge is
far stronger than fiction.

As this matter seems to have
only been published in Truth you
may consider it a very private
& valuable information.

Should you corner the Kelly
Motor Stock I expect a large
dividend for these points

Yours in
James C. Broom

When oh when is the Electric Light
to Power & Drive?

[FROM CALVIN GODDARD]

J.A.E.

Oct 20

Did't you have a
"Faure" or secondary battery
made? Did you ever try it
for what was request?

Can uniform pressure
be secured and for how
long?

Yours C.G.

u r c v i g
c y c o r r
g r o A m o r

Phonograph

Oct. 22. 87.

Photo. Edison Eng.
Dear Sir,

Will you be kind enough to do me
the favour of answering me a question or two

I have made use of Phonographs for my own amusement &
for the pleasure of making it, I find after experimenting about a year
or more, I cannot get it to speak as loud as I would like to have
it do. The Cylinder is brass, six inches long, and six inches in
diameter, twenty threads to the inch. Diaphragm of $\frac{1}{16}$ in. or $\frac{1}{8}$ in. in
its diameter. Now that I want to know if you please, which is the
best thread or groove for the Cylinder the square thread ~~or~~
or the V shape ~~thread~~. The thread on my cylinder is square.

How could I find out or determine how stiff to make the spring that
holds the stylus (should the spring be as stiff as one of ordinary
American watch mainspring? Any information you may give me
or any suggestion you might make so that I could give my instru-

ment a louder tone, Will be highly appreciated. I assure you

Yours with great respect,

Geo. W. Anderson.

17, 12, 12, Girard Avenue.

Philad^a Oct. 25th 1887.

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY.

This Company's telegraph lines and other property are operated only on the basis of a contract of service, which have been inserted in by the master of the following message, in the sending station of the message, and the Company will not hold itself liable for any loss or damage in transmission or delivery of the message unless the message is so transmitted or delivered by request of the sender under the conditions stated there.

A. B. BROWNE, Secy.

NORVIN GREEN, President.

Dated

Received at

791 BROADWAY.

To

S. U. Edison

READ THE NOTICE AT THE TOP.

My visit to New York
is postponed till
Tuesday

C. J. Porter.

Spokane

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

TEXAS & PACIFIC RAILWAY.

DIVISION SUPERINTENDENT'S OFFICE.

Irvington, Texas, Oct 23rd 1881

*Thomas A. Edison Esq
Menlo Park.*

*My
Dear Sir,*

*My purpose in addressing you is not
to obtain an "Autograph". I shall be quite
as pleased to receive my information through
your lowest clerk if it is authoritative.*

*I desire to know what books are
most suitable for a beginner in the study of
Electricity.*

*One, who is totally ignorant
and wishes to learn a good solid book to
found a serious and careful study of the
subject upon.*

*I shall be pleased to
receive your advice, which I do not fear
you will withhold, at your convenience.*

Very truly, Yrs

Phil Stucker

D/S

J. T. Sprague.

Edison

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THE WESTERN UNION TELEGRAPH COMPANY.

This Company's TRANSMISSIONS are made only on conditions, limiting its liability which have been announced to by the order of the following message.

When a message is sent, it is received a message sent to the sending station for comparison and the Company will not hold itself liable for errors or delay in transmission or delivery of messages.

The message is an unreturnable message and is delivered by request of the sender under the conditions stated above.

A. B. HANCOCK, Secy.

NOV 29 NORVIN GREEN, President.

Dated

Received at

To

READ THE NOTICE AT THE TOP.

Albany, N.Y. 7
791 BROADWAY, New York
To Saml. Russell
65 Fifth Ave New York
They decline to authorize
the closing of that
matter today hence have
told them would telegraph
you. So you can
look elsewhere will see
you some day this
week and explain fully
W A Graves
Paid
ms

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHEREAN ANY REPLY SHOULD BE SENT.

Direct Wires.

CHARLES N. TALBOT, President.
CHESTER H. POND, Electrician & Gen'l Manager.
ALVAN TENNEY, Sec'y and Treas.

OFFICES OF
The Pond Electric Signal Co.,

130 FULTON ST. (Elevator Entrance),

ROOM 40,

Dear Edison *New York, Oct 24 1881.*

Returned from Paris Saturday.
As I go to Baltimore tonight
Can't see you till later in the
week. Your exhibit was by far
the most comprehensive and
attracted more attention &
interest than any others present.
Concerning the "Swan" light,
& some others, I have some
respect for the "Maxim fraud"
in comparison

Yrs

Chas Pond

THOMAS A. EDISON,

NO. 65 FIFTH AVENUE,
NEW YORK, Oct. 24th, 188

Mr. Rocap,

Edison Machine Works,
104 Goerck St. City.

Dear Sir:--

Messrs Woodruff Bros., of the Auburn Button
Co. have sent a package to the machine works addressed
to me. Please look out for it and advise me if you
have received it.

Yours truly,

Samuel Insull

Nov 15/81

The above is here now.
Rocap

Oct. 24th,

Messrs Toddruff Bros., Auburn Button Co.

Auburn, N. Y.

Referring to yours of the 14th, I will make some experiments with the button stock you have sent me and let you know the result.

Yours truly,

Ans Nov. 5. 81

Western Union Telegraph Company,

Chicago, Oct. 24th 1881

Thomas A. Edison Esq.

Dear Sir -

I am preparing
a paper on 'Ocean Currents' to be read
before the Chicago Electrical Society in
November.

I refer in this paper to
explain past & present methods for
exploration of Ocean depths - and
am advised that you have made
experiments in that direction, by the
aid of your Electric Light.

My constituents, will now do me
the favor, to give me such facts
regarding your experiments, apparatus,
etc., as your own choice to make
public.

I should feel honored

OFFICE OF THE
Western Union Telegraph Company,

not being allowed to present the
same to our Society

Very Respectfully

G. M. Feltm

Say I have ~~only~~ my only
experiments have been
on producing a
submarine light. People
I had drawings made
but cannot do no further
as I had to drop the
matter to attend to more
important things

Місцяного

Q2 25.81

Fillon

Submy. Titicopa

✓ 4 1/2 1/2 1/2

Wickham
METROPOLITAN CASINO.
Forty-first Street and Broadway.
E. G. GILMORE, LESSEE AND MANAGER.
EVERAD M. STUART, ACTING MANAGER.

New York, Oct 24 1881

— Edson &
Dear Sir

Will you kindly
send by express an answer
to the note left by me
two or 3 days ago - and
reply

Yours truly
Ed Stuart

METROPOLITAN CASINO.
Forty-first Street and Broadway.
E. G. GILMORE, LESSEE AND MANAGER.
EVERAD M. STUART, ACTING MANAGER.

New York, Oct 25 1881

Thos Russell Esq
Dear Sir

Yours letter just
recd. I will meet you at your office
tomorrow evening at 7.15 P.M.
Thank - Will you kindly
make an apt. with Mr. Edson
for that hour.

Yours faithfully
Ed Stuart

Oct. 25th

George W. Anderson, Esq.

1289 Gerard St. Phila. Pa.

Dear Sir:

Referring to yours of the 20th, Messrs. Berg-
man & Co. 108 Rooster St. City, will give you all the
information you desire as to the Phonograph, they having
manufactured them from the first. I have done practi-
cally nothing with the Phonograph for a very long time
past.

Yours truly,

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY

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Message to be transmitted subject to the sender of the following message, and the Company will not be held liable for any delay in transmission or delivery of the message.

This message is an UNREPEATED MESSAGE and is delivered by request of the sender under the conditions stated above.

A. H. BREWER, Secy.

NORVIN GREEN, President.

Dated Cheward 1881.

Received at 791 BROADWAY Oct 25

Thos A Edison

Ar Insull 65 save

Mr y will see you

this morning he cannot

wait over until tomorrow

if you want to

secure him better do

so immedy Key

to Information you want

Jas J Bradley

288d wa

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

READ THE NOTICE AT THE TOP.

Oct. 25th,

Col. Goddard:

W. H. C. Goddard
I have tried the Fa're battery and as the
results of my experiments have applied for a patent on
the means of regulating the electro motive forces of
a secondary battery.

Yours truly,

Oct. 25th,

J. C. Massa, Esq.

New York City.

W. H. C. Goddard
Friend Massa:

It is very difficult for me to name a
time to see you. I am to be found most evenings aft
er 6 o'clock in the neighborhood of Pearl St. super
intending the laying of our electric light mains.
If you are down that way any evening call at 215 Pear
St. where you will be able to find me exactly where
I am.

Yours truly,

Blank No. 1

223 pm

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and RECEIVES messages only on conditions, limiting its liability, which have been agreed to by the holder of the following message.
Messages can be accepted and transmitted by the Company without liability for damages or delivery at the expense of the sender.
This message is an UNREPEATED MESSAGE and is subject to the order of the sender under the conditions limited above.
A. R. BROWN, Sec'y.

NORVIN GREEN, President.

Dated Albany, N.Y. 17, 1881.

Received at 791 BROADWAY. Dec 27

To Saml Asull

READ THE NOTICE AT THE TOP.

60 fifth ave nyc
Will take the forty
five shares as per
answer

W. A. Graves
9 p.m.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Bill

*6, Lombard Street, E.C. 4.
London, October 29th 1889*

*T. A. Edison Esq
65 Fifth Avenue, New York*

Dear Sir,

*On the instant I cabled you "Ship only three
" Stations until receipt my letter Saturday's mail -
" European telephone agreements completed cable following
" Edison Telephone Company of Europe Limited nominate
" Gouraud & E. H. Johnson as directors sign Edison
" president"*

*The reason why I asked you to ship only three
stations until you should have received my letter,
you will easily understand when I remind you
that, as they will have to be used chiefly if not
exclusively in countries where we have no patent
protection, it will be necessary to proceed with
caution and after we have duly felt our way.
And in the next place, as we can only hope to
compete successfully with others, who may be in
the field, by offering our Light at a less charge,*

or at least on terms equally advantageous as they -
leaving the public to prefer ours from its superiority -
the outlay for all plant must be kept as low as
possible - I would suggest therefore that, having
regard to the fact that there are no patents & that I
furnish all necessary capital, giving you half
profits, you should supply the necessary plant at
cost price to yourself - If ~~you~~ will kindly give
this matter your careful consideration I feel sure
you will come to the conclusion that the proposition
is a fair one, when I should be glad if you would
enable me to that effect, & supply me with an
amended list of prices - By that time I hope
to be able to send you a considerable order.

Yours very truly
J. E. Gouraud

per H. J. J. to whom the
letter was dictated by G. J. Gouraud

Emma's Light

Oct 29/81

Emma's

Oct. 30th,

Mrs H. Naszioger,

Elzville on the Rhine,
Province Nassau, Germany.

Dear Madam:--

Referring to your favor of the 7th,
of August, Mr Edison requests me to say in reply,
that he has so many claims on him for assistance at
home that it is quite impossible for him to grant
your request.

Yours truly,

Oct. 30th,

Henry R. Jetty, Esq.

High St., Yeovil,
Somersetshire, Eng.

Dear Sir:--

Referring to your letter dated "Octoo-
ber 1891." Mr. Edison requests me to state that
since writing to you he has been constantly engaged
on his electric light experiments. He is now occu-
pied with the practical introduction of the light
in this City ; upon the completion of which he may
possibly find time to continue his inventions, and
no doubt the Megaphone will come in for a fair
share of his attention.

Yours truly,

Secretary.

REAL ESTATE OFFICE OF Fitch, Fox & Brown,

1437 PENNSYLVANIA AVENUE,

(Cotton Building.)

Washington, D. C., November 1, 1881.

Dear Sir:

Enclosed herewith we send your tax bill for the year ending June 30th, 1882.

One-half of said Tax is due November 1, 1881, the other half May 1st, 1882.

Parties who pay the whole of said Tax within thirty days from the first day of November, will have a deduction of five (5) per cent. thereon.

On so much of the first half of said Tax due November 1st as shall not be paid during said month, a penalty of two (2) per cent. will be added on the first day of each succeeding month thereafter, until the same be paid or otherwise proceeded with as the law directs.

The law imposes a like penalty for non-payment of the second half, due May 1, 1882, if not paid within said month of May.

We will attend to payment without charge, for our clients.

Please return bill with your remittance if you desire us to attend to payment.

Yours truly,

FITCH, FOX & BROWN.

check
p. 321

Megaphone

Nov 3. 81

Gallupin. Miss

November 3rd 1881

Prof. Edison.

Would you be
kind enough to let me
know whether the "telephon-
scope" is a success or not.
All that I know about
it, is that there is such
a thing & that it will

enable deaf or partially deaf
people to hear perfectly.

I come under the latter
head & as you have tried
everything on hand of, but
without success.

Before I ask whether this
invention of yours can help
me or not, let me tell
you that the drum of
my ear is entirely destroyed
& is slightly affected in
the shell.

Hoping you will find it

convenient to answer me soon
as I am really anxious to
find something that will
help me, I am, sincerely

Edna Gillespie -

P.S. Enclosed you find will
find an address addres-
ed & stamped.

Refers to my explanation
Say that Edison
had to suspend his
experiments to give his
attention to G. L. ~~Edison~~
may probably, ~~be~~
to suspect some ~~of~~

London Nov 6/81.

My Dear Edison

This being Sunday - and the Law
as well as the British Workman
being alike subservient to the demands
of the Church (ostensibly) - I am in
a measure at leisure - & will
improve it by cleaning up a few
of the fragments of uncompleted cor-
respondence between us =

Steam Dynamo The situation was
not well prognosticated by any of us
Else I should have left upon 2
months earlier - The machine upon
which you worked night & day &
spent some hundreds of £ extra money
lies on the Dock yet awaiting the
completion of its final resting place
Without the knowledge I had of it however
I should have made bad mistakes
& probably such a selection of a site
as would have had to be abandoned
Mr. Abbari is therefore not wholly
dissatisfied with the Delay - in
fact he agrees that it has been
all conducive to better work now
& consequently to earlier success.
Our canvassing the subject of Reliability
as not shown at Paris - I was
able to satisfy him that one of
two things must be done viz: Obtain
definite assurance from the
European C. that the Paris Dynamo

2/ Could be delivered to us within
a certain time - or order one from
you - I was as certain that you
would prefer the latter, as it
meant an order for which Cash
would be paid - so I urged it on
the ground of obtaining a superior
machine - avoiding complication
with the European & vice versa. Mr. F.
readily took my views - hence the
order - I cannot use it at Crystal
Palace as I am so weighted with
the importance of showing absolute
reliability in all my demonstrations
that I must have 2 machines in
my London Plant - and a number
at the Palace - My order for 20
small dynamos - was really given
with a view of using them for
isolated business - but the sudden
cropping up of this English Exhibition
compelled me to provide for it promptly
so I direct them to it - Especially
as this isolated business involves
so much that I cannot at present
give attention to - that we have
postponed it until after I get
the present exhibits in operation
It is my present opinion that
so soon as I begin to show
what these steam dynamos can
do - there will be a demand

3 For them for large isolated plants
such as the large Railway Station
- Big Mills, &c &c - I should have
prices on them at an early day =
I have a plan which looks
very well for doing a very good
business with our small machines
& plant now - & have already
some demands on this basis =
It is to use the many Engineering
Establishments of the Country for
the purpose of installing these
Outfits - they have all more or
less experience in such work & can
readily supply the Electrical Engineers
to receive instructions from me.
(Your Little Book will help) -

I will always send my own man
to see the thing started - after they
have made the installation = By
this means I deal only with the
Engineering Firm - Selling them
the machines & lamps outright.
Our profits will probably not be
so large - but that for a month or
so is of less importance than to
get our things into use - & to
give your Shops Employment.
I am about making a sale in
this way to the people from
Whom I am getting my Crystal
Palace Engines - they want
250 - 16 Candle Lamps with

Machines to run them - my bill
will probably be 500 Lamps
and 5 machines - as soon as it
is determined I shall send you
another order for 3 Dynamos
as I shall require all I now
have for work in hand - 15 at
The Palace - 2 in my London Station
2 at Preece's Kensington Lectures
and a few to spare - I would
now order them only that I dislike
doing so until I have actually
made a sale - not that Gabbri
would not approve - but I feel
it would not be quite business
like. I have bargained for my 3
Crystal Palace Engines with Robert
H.C. - they loaning the Engines & we
paying all expenses of transit
operating &c = a good deal =

You have ere this learned I suppose
that the money was promptly ~~provided~~
provided for the payment for
the machines ordered - that it was
not done the moment the machines
were ordered - was due solely to
the fact that it did not occur to
either of us that you would
first want to see the color of
D.M.T.'s money ere you recognized
the order - It is these little
things which makes Mr Gabbri

I think you treat him unjustly.
As for Gouard - that is another
matter - he cabled in his usual
suspicious way - then tried to haul
off when the question of the money
to pay was broached - that he feared
do so. You might of course expect
that the other party would - you
could hardly have a right to
suspect. For however much they
may be disposed to buy Cheop -
they certainly pay promptly for
what they do buy =

Lamps I believe I told you about
our dicker with the Faure Baty
people - they will undoubtedly
use up a good many Lamps -
they are delighted with our Lamps
so far - We shall probably secure
other important avenues of sale
- but are not yet clear as to the
wisdom of selling broadcast - or
in other words of supplying opposition
concerns with Lamps & thus the
better enabling them to overtake us
in other respects - I may have
more to say on this head this week.
- Dr Muirhead

Look out for him -
Latimer, Clark - his Partner is the
adviser of Swan - and so far
as our Patent investigation
has gone we find that we

have more to fear ⁽⁶⁾ from Lane Fox
than from Swan - we have found
a Patent of Lane Fox's in 1878 (Earl)
"which though fumbling about
so much as to not render his Patent
valid of itself - he manages to make
use of the feature of High Resistance
in such way as will materially
restrict us in the Broad Claim
we purposed making on this feature -
In fact it is going to be a very nice
bit of work to clearly draw the line
between your actual accomplishment
and the "Publication" effected by this
man - I am having a copy of
our findings on all important
points sent to you so you may
give us your views thereon - without
the labor of investigation of a mass
of stuff - meantime if you could
from time to time send me a bit
of guiding wisdom it would help
materially - Pres. Dr. Hopkins,
Shelford Bidwell, John Henry Johnson,
Theodore Waterhouse & myself are the
present Corps. of investigation
- At a meeting on ~~Saturday~~ Friday
they resolved to extend the scope
of the investigation to all your
patents and not confine it to
those on the Lamp - at this meeting

7. The subject of approaching Siemens
on the question of Royalty on the
Aronstern was fully discussed - and
though Gabbri was decidedly disposed
to accept your opinion (as conveyed
in the brief note found in my Book) - as
quite sufficient - & to go to him at
once - Hopkinson was equally decided
that we should first investigate
Siemens Patent - He said no fight had
ever been made on the machine Patents
& he very much doubted if they would
stand it at all events in view of
the fact that Siemens paid a Royalty
to Gramme in France - and in Royalty
view of the Passionately publications
in other Countries - & of the fact just
brought out here in a newspaper - that
such Publication had been found to
have been made in England also - it
was finally decided to investigate
- this opened up the question of a full
investigation which was ordered
- Hopkinson takes the Dynamo as his
specialty - Bidwell the Lamps -
Preece is making an independent
search for himself of the whole
subject - Waterhouse & I toss the
job - & point out the differences
between you & what they find -
John Henry Johnson tells us what the
Law will hold to be a sufficient

difference & what it will not -
- for Wm Thomson & Siemens paid
a long visit to your Big machine
in Paris - Thomson said "Well Sir
found to say it's nothing but a
Siemens Armature" - (as Hopkinson
say) - I told them I saw nothing
particularly brilliant in that finding
since in the sense that he meant
it to be a Siemens Armature
no one ever claimed that it wasn't
Although if the thing was thoroughly
examined it would be found
to possess sufficiently novel features
to render it quite as much different
from Siemens as Siemens differed
from Gramme - We will get deeper
into this subject in a few days. as
this is only the inauguration of the
investigation I cannot of course give
you much of interest about it -
In fact the whole Patent Examination
is only now fairly organized -
Hopkinson's fee will probably be from
100 to 200 Guineas - Bidwell is 7 1/2 £s per day
- Preuss you know was 250 £s - Sir John
Waterhouse will be heavy - In fact
this whole thing will cost the Axel
McGraw a round sum ere they get
through with it - Habbri is so much
concerned for fear that his Partners
will think he is injudicious of going in
that he is today spending some hours

I with friend Godfrey to explain matters
to him to the end that he may acquaint
their fellow Partners how things stand
I have however, through my intimacy
with Godfrey (kept up ever since we
left New York - my wife spending 4 weeks with
them in Paris) so fully posted him
that he not only understands but
cordially approves & endorses all
we have done & are doing. This is
so much more satisfactory because
Godfrey from being skeptical as to
our advanced position over our
competitors has been taught by the
Paris Exhibition and my personal
representations that we alone have
anything of real value -
They are also going to discuss some
scheme for "Eating their cake &
keeping it to." = that is to say some
scheme for introducing English blood
& capital into it - without parting
with it - so as ^{not} to lose the great profits
of the future - Whatever is done
will be somehow done on these lines.

Mining Steamers - safeguards &c
I am in receipt of your cables &
have written Guion - whom I know
& also Druman - It is a delicate
bit of work - & has to be done in a
way that will not antagonize anybody
- my letter is an invitation to them
to examine into our system & lamps &c

This whole question is coming up
in the newspapers - & you may rely
on it we shall take a hand in it
when the time comes - at present
I am keeping quiet - but Green
has already dealt a back handed
clap at a Times Correspondent on
the question of Coal - & will keep up
our end in other respects without
showing his head or ours - I prefer
to get my Plant going so I can
add to any remarks I may make -
"Come & see it" =

Tabbri Inouell tells me you all think
I am "off my base" in the matter of his
proposition for Europe - Well if I am
then so is Lowrey for he distinctly told
me that there is nothing in Baileys
present proposition which is not also
included in Tabbri's - Except that
now Baileys is worked out in respect
to details while Tabbri's was not -
but would have worked out in the same
way - and furthermore, the Tabbri's
proposition he assumed the responsibility
of certain payments which in the
Bailey proposition are only promised
by Bailey on behalf of others - Also that
H. proposed to pay on the spot \$40,000
- which would have put the out
of debt = Inouell speaks of 100,000
Francs for manifest purposes
whereas his proposition was
1,000,000,000 (million) - which 500,000 more

"For sending experimental plants
on to the Continent &c &c. This of
course don't concern me except so
far as it naturally comes to me
and I see that Garbri feels that
you are disposed to treat him
with less confidence than you
bestow upon Bailey in whom truth
& tell you have no right to place
any whatever - In the matter of
Italy too he feels that you have
broken a promise made to him
that he should have Italy on the same
terms as could be obtained from
any other parties - In short I gather
from it all that Garbri claims
some consideration for the guarantee
of good faith which his propositions
bring - which you refuse to accord -
but make it simply a matter of
dollars & cents as between him
& parties who give you no guarantee
either in their names or in more
substantial stuff - Garbri writes from
Italy that he continues to have an
eye to your interests there although
he is not to have a hand in the
matter - Has been making some
patent researches &c - Of course
you will not take any of this
as advice - You know your own
business - I only repeat it to you
because it has a bearing on
the question of your personal

Relations with a man who
has thus far impressed me
with being a fair minded man
& one disposed to help you while
of course he helps himself & those
associated with him - You cannot
blame him for attaching some
importance to the weight of his Reputation
since it was ~~that~~ very Consideration
which first led you to affiliate
with their House - & of course
if it had influence with you
it has with others & is therefore
a valuable Commodity & deserving
of Consideration in all transactions
I shall see in the result of this
English Negotiation the weight &
Character of men introduced into it -
just how far such an Enticement
as ours is benefitted by such association
At present it strikes me that Mr
Hobbs's chief difficulty is induce a
similar class of people here to
ally themselves with it. J. Morgan
for instance is quite ready to let Mr
H. put him down for as many ^{thousands}
of pounds as he may please -
but he must put some other Name
opposite the funds - Mr H. says
"If I ~~could~~ so convince J. M. of
the solidity and worth of this thing
as to obtain ^{the} use of his
name - I ~~can~~ float the thing

13 At any price - and it is in order
to so convince him & his kind that
all the work & present expenditure
is undertaken & assumed by himself
& his Partner - If they asked
assistance from any one it would
weaken their position - which is one
of absolute Confidence in the value
of the thing = Men who talk & act
in this way - should certainly
receive your hearty support -
as well as your Confidence
At least so I view the matter
from my imperfect - because one sided -
source of information - When I see
any sign of weakness or disposition
to take undue advantage you can
bet your Boots I shall not hesitate
to speak with Equal Candor
on the other side of the House

Telephone I have Innuels Enclosures
in re. to Telephone matter with Grinnard
and shall have to requisite interview
with the Duke at once - I have been
so busy - and the Duke has been so
kept at a distance in this matter
of E. L. (as Innuels will explain) that
I have had no opportunity to talk
to him on the subject - He has however
put me into a big Co - as Director -
(Temporarily) - without my knowing

Much about it - and I am to
have an interview - at leisure - to
discuss the situation with him -
I will then inject the small matter
of a settlement with you - and
be able to write you of something
definite - In my opinion he has
blown some pretty big Bubbles here
& they will soon be coming tall crashing
to both your cost & his - Except as
to his financial costs - He will take care
of that - He is giving the impression
that he is retiring from active business
- and it is not unlikely he is timing his
complete withdrawal to suit the final
tumble - How so many millions can be
invested & no business done is more
than I can comprehend - You see if
we were to take him into this E.L. &
such a crash should come in
the telephone - the effect on the E.L.
would be disastrous - so he will
be left out - will not be in any
way interested other than as you
have already invested him - He wants
to organize a big Co. on your non-redeemable
concessions - in fact he has the money
& will organize a Co. with 100,000,000
Capital on

Wants me to go in on equal terms
with him - but I simply asked him
for a showing of how my interests
stand in the Colonial Telephone
Co. - Yours as ever E. J. Johnson

THE EDISON ELECTRIC LIGHT SYSTEM.

EDWIN H. JOHNSON,
MANAGER.

57, Holborn Viaduct,

London, E.C. Nov^r 10. 1881

My Dr Edison

I was more than surprised today by the receipt of your Cable to General Winton to buy a park of my interests in the English light - talk to him - I sent off my reply to the effect that it would do - my letters which will shortly reach you - or some paragraphs in mine to General Winton will give you an insight into my reasons for being so emphatic on this head - The fact is Mr Winton has found on investigation that if he wants to bring into this thing the character of men he has been contemplating he must not have G.E.S. and has been very decidedly informed by eminent London Authorities - in no way connected with G.E.S. or Telephone matters - that G.E.S. is not the sort of man that good men will associate with in business - Mr F. told me that the testimony on this head was so conclusive that he should, if it became necessary, not hesitate to tell the Duke the fact to his face - failing then to get into it - through this source he tries a coup through you - but fortunately for you refer the matter to me - He told me he was going to Paris last night & I

EDW. H. JOHNSON,
MANAGER.

57, Holborn Viaduct.

London, ^{Eng.} ¹⁸⁸⁸
 thought he had gone but a few
 minutes after I sent off my cable
 I had a call from him - He asked
 me if I had had a cable from
 you - I saw at once that you had
 so advised him so I "Couldn't tell
 a lie" & answered "yes" - & asked him what
 it meant - he attempted a lame
 explanation to the effect that it just
 occurred to him last night that as
 he was desirous of increasing his
 E. L. interest & that you were wanting
 money that possibly you might be
 willing to sell - he treated the matter
 very carelessly - as though it was of
 no importance - In fact as any one
 whose Cup had been spoiled & who
 therefore wished to belittle it - would.
 I asked him what offer he made -
 you - Oh he says I made him none &
 I don't know that I am prepared to
 make any - but if Edison will sell a
 quarter or less of his interest &
 will make me an offer I will see
 if I can afford to buy it - & there
 you are - He asked me to so inform
 you - I agreed to do so. But at the
 same time told him that I thought
 it against your interests as well
 as ours that you should part
 with any of your holding just at
 present - & advised him to buy
 into it - through the D. M. & Co interest

EDW^d H. JOHNSON,
MANAGER.

57, Holborn Viaduct.

London, E.C. 1888.

Then immediately wrote to Mr Webb, telling him the whole story - and warning him against the Duke's machinations - Now my dear old man - I know you want money - & if you have any intention of selling any of your interest - let me know the fact and I will find you a purchaser very quickly who will pay quite as much as General, and whose money will not operate to prevent your obtaining more & better names for the rest of your holdings - remember this - always - However for your own & for the general good I think you ought not to sell at all - If you can carry yourself over until about Christmas we will make you a handsome remittance -

The Duke said in reply to all those communications from you in re telephone statements - that he could not understand them - & thought all the work of Inance - I told him no, I could bear testimony to the fact that the views therein were your own - & recalled to his mind that when I was in England I advised him to settle this thing with you. He wades the issue - right along - says "I don't want to rob him neither do I want him to rob me" - I gave him to understand

EDWARD H. JOHNSON,
MANAGER.

57, Holborn Viaduct.

that you would not sever from London, E.C. 188-
the position you have taken in re
to the question of who should pay for
former companies syndicates &c. &
to show it - told him that you had
profited by your experience in the
telephone to have a clause in your
DM & Co. contract expressly defining
this principle - He then informed me
that the Oriental business had just
been closed & they were now ready to
pay over the cash - having as decided
at a stormy meeting on the very day
of our conversation - He also told
me that he had cabled you the money
for the 20 dynamos & sent you
10000 of cash on the general a/c -
This looks magnanimous - but bear
in mind that beside what he owes
you on telephone settlement &c.
He was just got in possession by
the action of this Oriental concern
of more than sufficient cash, of
your own & cover these apparently
liberal advances - He told me that
the 10000 was paid you on general
a/c. that is to say he expressly withheld
the settlement question - so you are
still in the same position you
were ere he paid you a penny
- although it looks as if he had
responded to your appeals by
sending you money on them -



THE EDISON ELECTRIC LIGHT SYSTEM.

EDW^d H. JOHNSON,
MANAGER.

57, Holborn Viaduct.

Then while the ^{London, E.C.} ~~firm~~ was hot he ¹⁸⁸⁸
struck out the bait to you & buy
a share in your E. L. This means
actions toward you are straightforward
and honorable in comparison with
his dealings with others - He has
every incentive to keep in your good
graces - yet his natural propensity
to over-reach - is so great that he
cannot even keep a clean slate
with you - Now then do you suppose
those people fare whose money
alone he is after - do you not see
that once you introduce such a
character into your Electric Light
Matters - you violently shut the door
in the face of decent men -

You have never more than half
believed what I have said on
this subject - but just get your
own emissaries to work & find
out from a totally unbiased &
independent source what the true
inwardness of this man's business
reputation is - & do I am not fully
corroborated - then I shall not ask
you again to place any confidence
in my judgment or representations

Yours Truly

Edw^d Johnson

File

6, Lombard Street, E.C. 4.
London, November 10th 1881.

J. A. Edison Esq.

65, Fifth Avenue, New York

My dear Edison,

I yesterday instructed Drexels to pay you \$10,000 on our general account. I was not aware until after I had some little talk with Johnson that your present need for ready cash was so urgent. As soon, however, as I learnt the requirements of your undertakings I called Drexels to pay you a sum exceeding that as to which we at present hold different opinions, confident that we shall be able to reconcile these with that same mutual satisfaction as has characterised all our past transactions.

Yours very truly
W. H. P. Gossard

6, Lombard Street, E.C.
London, November 10th 1881

J. A. Edison Esq
New York

My dear Edison

I beg to confirm the receipt of your
cable of Nov^r 7th as follows

Three dynamos shipped balance seventeen ready
for shipment Cable funds urgently want money

In accordance with which I instructed Drexels
to pay you for the balance, and cabled you
Drexels advised.

By this time you will have received my
letter of the 29th ult which will explain the delay
in this matter. As however your cable seemed
to denote present need of funds (which until
the explanation I received from E.H. I had
thought a bit of pleasantery on your part)

I without waiting for your reply, immediately
instructed Drexels to pay you the full amount
of the invoices, leaving the subject of balance
of the principal for future adjustment, which

have no doubt will be arranged entirely to
mutual satisfaction - for you cannot fail
to see the force of my arguments in my letter
of the 29th ult. above referred to -

Yours very truly
 Wm. Lloyd Garrison

[illegible]

1. ~~General~~ ~~Manager~~ ~~of~~ ~~the~~ ~~Post~~ ~~Office~~ ~~at~~ ~~San~~ ~~Francisco~~ ~~Calif~~
2. ~~General~~ ~~Manager~~ ~~of~~ ~~the~~ ~~Post~~ ~~Office~~ ~~at~~ ~~San~~ ~~Francisco~~ ~~Calif~~
3. ~~General~~ ~~Manager~~ ~~of~~ ~~the~~ ~~Post~~ ~~Office~~ ~~at~~ ~~San~~ ~~Francisco~~ ~~Calif~~

I did not tell you that I had
in finally report as I am especially
certain that you would also be

making question arising between
in my next estimate may find
there to be on the subject

I am confident of your interest
in the matter with me in the matter

On the subject I can not
say the as I am off for
some time

Yours truly
Wm. A. R.

Miscellaneous
St Louis Nov. 14th 1871

Prof. T. M. Edison.

Brookline

My Dear Sir;

Last spring you were kind and noble enough to write to P. M. Gend James in my behalf in answer to an appeal I made to you to recommend me for re-instatement as U. S. Mail Agent - and I explained my loss of hearing &c. At that date I had strong hopes of success - but the assassination of Garfield and the uncertainty of the Cabinet made my work unavailing - I wrote you from Cleveland since which time I have come here to my home and have set about the matter again. I have drawn my application in regular shape and written it on parchment - and determined that if not in itself successful it shall prove one of the most remarkable documents ever filed in Washington for its array of distinguished names - as I am promised the endorsement of a number, and shall not cease until completed -

I had good reason to feel proud of the
honor you bestowed on me - and
believing that it would not be further
imposing on your kind act of last spring I
have taken the liberty to herewith send
you my petition to beg for your name,
and shall ever hold in grateful remembrance
your generous consideration - I am, Sir,

Respectfully
Yours,
James Gaffney, Bombardier,

Edward B. McIntosh,
Manufacturer of
Presses, Dies & Special Machinery,
30 & 32 Clay Street,
Brooklyn, C. D. Nov 16 1881

Thomas A. Edison

Dear Sir,

I would be pleased to
have an interview with you on the sub-
ject of Lion's Eye, if practicable—
a communication addressed to
the inventor or subscriber will
be attended to at once.

Yours, &c

E. B. McIntosh.

Nov 16 1881

See him
any time he
meets
to talk from land

Miscellaneous
Dec 17, 89
Dr. G. H. Smith

The Light & Heat Telegraph Company,
Superintendent's Office, Western Union Building.
Chas. C. Small, Assistant Supt. George B. Scott, Superintendent. Ralph W. Pope, Deputy Supt.

Post Office Box, 4195.

New York, Nov 17th 1881

Friend Lunt

We are anxious to put a notice in the papers as to the subject of our next lecture for the N.Y. Electrical Society on Wednesday December 29th

May we promise that your folks will give us the promised paper on that evening -

If so, you will confer a great obligation on us, as the Society is young & needs the assistance of prominent names to keep it along

Yours truly

Geo. B. Scott
V.P. N.Y.E.S.

Amad

Miscellaneous Nov 22

Bowles
 Everett House
 New York.
 22 May 1891

T. A. Edison {
Clarke

Yours truly
 J. W. Smith
 President - my name is not
 gone of the original directors of
 the London Telephone Company -

After my Election last year,
retired from the United Empire Loyalists
of our office to attend to the business
of the paper. My paramount
duty is to the public.

It would be very interesting
to me to see your plasma laboratory.

Still to be the King, as ever
I doubt less I shall

understand that for some good
reason you prefer not to accede
to my request. -

But how about having
any would be constant to you

Thine
Confidant the fully

P. J. J. J.

Rev. fr Cambridge

England

Office of
Fitch, Fox & Brown.
Real Estate Brokers.

No 1437 Penn & Ave cor. Fifteenth St.

(Opp. U.S. Treasury)

James C. Fitch
Robert C. Fox
George W. Brown.

Washington, D.C. Dec 23 1881

Rev. J. Wilson Esq

65 North Ave. Portland Me

Dear Sir

Herewith we hand you receipted

bill for lot on S. 2d St by 206 ft. ending June 30/82
paid with check for \$62 received in your favor of 21st inst.

Yours truly

John C. Brown

File

International Congress of Electricians
United States Delegation
Paris

Elie Paul Rost

Nov. 23,

Philadelphia Nov. 23, 1881.

My dear Edison:—

Thanks for your telegram of the 12th and your letter of the 21st. I did not reply by telegram to the question you asked in the letter because I could not recollect at once the circumstances. Even now I do not recall clearly that any special form of apparatus was talked of. I remember very well that we talked during that after-

dition upon electricity, as a motive power and upon propelling railroad cars by it. We discussed together, as I recall it, the machines in use as electric generators and the economy of their reversal so as to develop power. I had had a Gramme machine in use since 1875 and gave it always the preference over the Siemens machine. This is my recollection of what passed between us but I am afraid it is too general to be of any service to you.

I am much obliged to you also for the things you lent over to me. I made use of them as you saw in the paper

I sent before the Academy to correct and neutralize the impression given a year ago in favor of the Mapin lamps. Everybody was very much pleased and fully convinced that you were a long way ahead of everybody else. By the way, did you notice in Nature for Nov. 3, page 16, at bottom of the page, a very complimentary allusion to your system of lighting?

I write now to say that I expect to come over to New York on Friday morning in the 7³⁰ train; and that I will come at once up to 65 Fifth Avenue to see you. I shall reach there about

half past nine as I suppose.
There are lots of matters I
want to talk over with you
and we can arrange for an
hour to chat quietly together.
I shall probably remain
till Sunday night, possibly
until Monday night. I have
an appointment at Dr. J. K. O's
about one on Friday. Mr.
Habri wanted me to go in
and see Mr. Wright about
the London outlook, which
is fine. I saw Mr. A. J. Drevel
here this afternoon and he
is very much interested in
the success of the London
Company.

Hoping to see you on Fri-
day, I am Cordially yours
George F. Barker.

File

Miscellaneous

Nov 23

New York Bowles
23 Nov 23

Iserson {

Dear Sir

~~Dear~~ Many thanks

for your reply through your
agent.

I will be right over
on Friday as early as I can
but I am exceedingly
impatient that morning.

Sincerely
yours faithfully
Bowles

The Gold & Stock Telegraph Company,

Superintendent's Office, Western Union Building.

Chas. E. Small

Assistant Supt.

George B. Scott

Superintendent

Ralph W. Sage

Deputy Supt.

Post Office Box, 4195.

New York, Nov 23^d 1881

Friend Ingh
Dear

*As you were somewhat
afraid the time was short between
this & our next meeting, I have
arranged with another gentleman
to fill up that date and therefore
you until the meeting after
(Dec 21st) to get your paper ready.*

*This will give you over 3 weeks to
write up the paper -*

*May we depend on you for that
date?*

Yours truly

Geo. B. Scott

Say my E.
 thinks I have too
 much to do to take
 matter up but will
 that Mr Bond of Bond
 Co who has ~~parted~~ left from
 Paris would ~~use~~ use his name in applying for a Bond

Miss Laura

Nov 23rd

Leeds

I have just received
 your letter of the 21st inst.
 and am glad to hear of your
 success in the matter of the
 bond. I will be glad to hear
 of the result of your efforts.

Accd
Sent \$1.00
Miscellaneous
Nov. 29. 81
Mr. Notband
Newark, Nov. 29th 81

Mr. Thomas A. Edison:

Dear Sir,
Will you be kind enough
to send me Mr E. H. Johnson's
address? Some weeks ago
I wrote him & directed
letter in your care -
no doubt it was
forwarded. Mr Edison
you were one of my
deceased husband's
friends. I never often
heard him speak of
you - one boy who is
nearly 3 years old, is
named Edward Edison
Notband. I have also
a little daughter only

is a nice old - but alas
this is of no consequence
to you, I suppose you
heard of my dear
husband's death in
Cincinnati, The 20th
last January - only but
come from the office 3-
days - I have been left en-
tirely dependant on you
won't consider me too
persecuting, I would like
to ask you to loan me
\$25.00 for a few mos -
my only brother is in-
terested in mining in
Arizona - but he yet -
has not met with suc-
cess, I trust you will
take time to peruse my
letter & let me hear
from you at your earliest

convenience With kind
regards to your wife
& little ones, I am
Yash" } of whom I have
heard -

Yours very respectfully,
Mark A. S. Clabland,
253 Elizabeth Avenue,
Care of A. Wilson.

THE EDISON ELECTRIC LIGHT SYSTEM.

EDWIN H. JOHNSON,
MANAGER.

57, Holborn Viaduct,
London, E.C. Dec 5th 1881.

My dear Mr Edison!

I have much
written you for lack of time
receiving all I had to say, to
that time when we are to
meet - which I trust may
be soon. Mr Eldred had no
right to send for my
papers but I want them
just the same as I
called you from Paris -
please send them abroad
c/o The City Bank (Limited)
London, &c or

The Bristol Hotel
Rue de la Paix
Cork St.
London W.

Please do not delay
sending the papers

I had a pleasant
talk yesterday with
Mr Fabbri regarding
your light. It is not
impossible that we may
do some thing in the
matter. I see many
ways I can make money
for them but nothing for
myself. There is more

are lighter than your plan in
Chile. I look forward with
much pleasure to the time we
shall meet. With my comple-
= ments & respects I am

Very truly & faithfully Yrs

Jose A. Hernandez

English Copy
Dec 5/81
Auckland

Miscellaneous
Dec. 7
Mrs. Stoddard

No Answer

Remarks Dec. 7, 1876

Mr. T. A. Edison. Please accept
many thanks for your kindness
in replying to my letter &
graciously granting my request
which you could be
successful in all your
undertakings.

I remain,

Yours respectfully,
Mrs. T. A. Stoddard.

253 Elizabeth ave.

The Gold & Stock Telegraph Company.

Superintendent's Office,

Western Union Building.

Geo. H. Scott, Superintendent.

N. Y. Dec. ~~29~~ 3782

By J. H. Small, Asst. Supt.
FROM DICTATION.

New York, December 7th 1881

Sam^l Insull Esq^r

65-5th Avenue

Dear Sir

Your favor of 29th ulto received. I am very sorry Mr Edisto thinks you are too busy to give us a lift, but I suppose it cannot be helped, and we must do the next best thing. We want something from your Company, & if nothing else can be done, I will tackle it myself.

Will you please ask Mr E, if he will give me a letter of introduction, to his shops at Menlo & other places, where the Lampo, Dynamo and all the important plant is manufactured, stating in the letter, that the parties in charge are authorized, to furnish enough information, to post me on all the details, so that I can make a full and interesting paper.

If he will kindly do this, I will try and

2

Place the whole system before the Society,
so that they will understand, all the
operations and principles involved —
Please reply early and obligs —

Yours respectfully

Wm. Scott
Supt.

Instructions

2008/2009
2008/2009

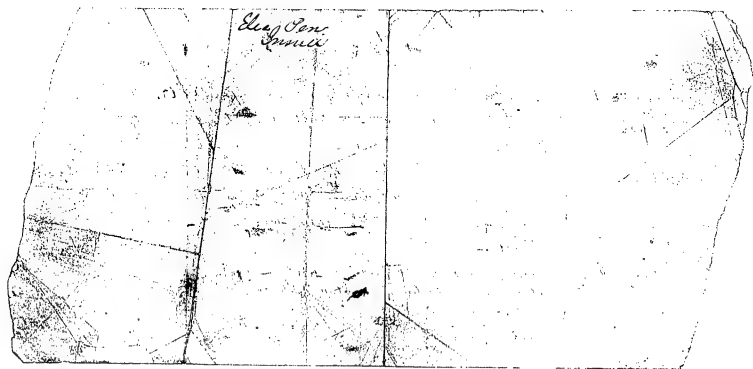
Pen 6156

5 an entirely new ~~pinion~~ axle -
supplied by present one - which was put in to
replace a broken one - This axle seems to be of
some other metal than the hand-cut steel - I think
it is so, far from being fixed in the middle
of the nut - also wants a new nut and
pinion -

Pen 3357

wants axle re-fixing only -
also new tube, nut and pinion.

1 spare tube -



File

G. Lombard Lombard E.C.
London December 13, 1881

My dear Insell

I am very much obliged to you for your letter of 30th October, which arrived during my absence in Italy, and which I must say were it not that I knew Mr Edison as well as I do, might have given me a little uneasiness - Probably the signs of irritation evinced by Mr Edison when you spoke to him were owing to the great pressure in financial matters which, I understand, he has lately been under, and which, so soon as I learned, I endeavoured to remove as far as I was concerned by a remittance -

You must be in error tho' as to my Light agreement never having been signed by Mr Edison, as I have the original in my box at the New York Safe Deposit Company, and it was only to save troubling my friends to get at this that I asked you to be good enough to send me a copy - In all probability the reason you thought that the agreement had never been signed was owing to the copy in Mr Edison's ~~house~~ office not having been executed - This I am quite aware of, as I did not sign Mr

(No 2)

6, Lombard Street, E.C.
London, _____ 18__

Edison's copy. But even if such were not the case, and there were no written agreement between us, it would not be the first time, as you very well know, that Mr Edison & I would have had important transactions together without any documentary evidence of our relations; and I should have no doubt that Mr Edison would act as strictly in accordance with his high sense of honor, and with his usual straightforwardness in this instance as he has done in those that are past. At the same time I am very much obliged to you for your letter, and for so kindly looking after my interest.

Things are pretty brisk here just now, though I cannot exactly say that I have any matters advanced beyond a state of embryo, other than what I have already reported to Mr Edison. I have just returned from a visit to the principal cities in Italy, where I have been to look after our telephone interests in that country.

(3)

G. Lombard Street, E.C.

London.

18

The agent I referred to as having been sent to Portugal has just cabled me saying that he has succeeded in obtaining a concession on very favourable terms - We shall have to work this within a month so that I shall have to obtain premises and send out instruments and men forthwith.

I also mentioned that I had an agent in Russia - Well he has returned and I am now in the midst of negotiations with certain Russian gentlemen for the formation of a Company for that Country, that will combine all interests and have an almost exclusive concession for 20 years. If everything goes on satisfactorily this ought to be one of the most successful telephone schemes yet set afloat.

The Oriental Shareholders' meeting has not been yet called as there was some little delay in getting the agreement for release approved by all parties, owing to the Anglo Indian people making some difficulty as to the 4000 Lower Bell Telephones - I think, however, they will now make

(No 4)

6, Lombard Street, &c.
London. 18

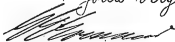
no further objection and that we shall soon receive notices for the public meeting

As regards the Electric Light I fear I can give you little news, as you will have been well posted in everything in this connection ^{by telegram}. I may say, however, that I think we are steadily gaining ground and that all our rivals, with the exception of the 'Brush' appear to be doing next to nothing.

The very successful result of the light on the trial trip of the Brighton Pullman train created a good impression, and I confidently expect that when the Crystal Palace Exhibition is opened we shall come before the public with such élan as to carry all before us. This Exhibition will not be opened quite so soon as ~~was~~ ^{was} expected, but this is owing to the wish of the Council to prove an exception to the rule generally followed in opening Exhibitions, and have everything complete on the first day.

Trusting you are well

Believe me, Yours very truly,



John C. Porter,
Governor of the
Gen. Value of the
Gen. S. Hamilton,
Wm. L. Porter.

P. O. Box 1836.

Porter, Lowrey, Lyon & Stone.

Attorneys & Counsellors at Law.

No. 23 Broad St. New York.

17th December 1881.

My dear Edison,

Faire Accumulator.

The enclosed copy of a letter just received from Major Ricardo-Deaves will interest you because of what he says of Mr. Borges. In London he told me that he had heard something derogatory to Mr. Borges, and I requested him to pursue his enquiries and let me know the result. The reference to Bohannan arises out of a request by me that he would develop the Bohannan pretence of a publication. In respect to Holland, am I to say to him that you need not have that business?

Saportas.

I have seen Saportas twice this morning. He came to deliver me the shares of European Stock sold by Ruskas. I have also a letter from Borges this morning correcting his former letter which stated the shares as 1000 shares, and led me therefore to suppose that they were Edison Electric Light Company's shares. This gave me the occasion to speak with Mr. S. and I simply gave you the result. You need not answer the letter of

Mr. Townsend. In the meantime, when you meet
Saportas please do it in a friendly manner; though
for that matter I suppose you have always done so.
You will not, I think, hear anything further from
him on the subject.

Villard.

I also met Villard at lunch, and spoke about
your expenses on the Railway. I think, if you desire,
I can get you these expenses from him, though he
says not in the shape of payment of bills which
he has not agreed to pay. I think perhaps I can
get it in the shape of an advance - only you will
have to give him some vouchers for it. It is necessary
to be strict in business ways with these people;
and he tells me he is quite willing to help out
with these expenses, only he wants it done in a
correct way.

Ever yours,

H. P. Love

John R. Porter,
Governor Illinois,
Gen. Wm. Sumner,
Chief Justice House,
Gen. S. Hamilton,
Wm. L. Porter.

P. O. Box 1836.

Porter, Leary, Leary & Stone.

Attorneys & Counsellors at Law.

No. 3 Broad St. New York.

Apr. 23 1880.

Dear Mr. Griffin. I enclose letters to be
signed by Mr. Edison as President of these
Companies. I think Mr. Edison should
have one hundred dollars a year ^{from each} that
is little enough in all conscience.

It is for Mr. Edison's interest,
most clearly, that this thing should be
done, and it is indispensable for the
value of the Companies' business, and
stock, and even for the security,
against the law, of all concerns, that
this work should be done and be at all
times in order. The statutes require
lists of subscribers, stock plans to be kept,
refined to be made & lots of things to be
done under severe penalties, and the
matter must be looked at seriously.

If it is desired that Mr. Edison should
take this service, get Mr. Edison to send these
letters to him, at once. If Mr. E. says so
it will be fine.
I am truly
Yours

Everett House
Union Square, New York
Hobbs & Hoovers

Dec. 23, 1881.

Thomas A. Edison, Esq.
65 Fifth Avenue, N.Y.

Dear Sir,

In regard to seeing
your new apparatus
next week, Wednesday or
Thursday will be the
only days that I can be
here. If you will inform
me in Boston when I
can see them in
operation, giving day and
hour, I will come out to
New York for that purpose.

Yours truly

C. M. Woodbury.
171 Dornellhouse St., Boston.

please to say you will
probably still
your friend
Stegerwisch
Thomas A. Edison

Friday Dec 23/81

Referencing to yours of
24th Mr. Edison's acknowl-
edgment informs you that
he will call on you
the same time he is at
town - He would bring
down a copy of your but has
been so busy, he

✓ c Miscellaneous
Dec 23/81
Hagerwisch

Dear Mr. Edison,

I have been long in
hopes to see you dropping
my office to confer with
me regarding the future
& present affairs of the
Underground Cable Co.

But as your engagements
are so numerous, I beg
of leaving the pleasure of
a call from you & must
ask you meanwhile
for your opinion as to
the merits of the Portland
Bowl Cable

Will you give it to me?

THE EDISON ELECTRIC LIGHT SYSTEM.

EDW^d H. JOHNSON,
MANAGER.

57, Holborn Viaduct.

London. E.C. Dec. 25th 1881.

Thomas. A. Edison Esq^r

65. Fifth Avenue,
New York.

My dear Edison,

I accepted an invitation from Coll. Gouraud on Wednesday night to attend a Soiree given by the United Telephone Company to the press at the Bristol Hotel, the object being to repeat the Paris music transmission. On this occasion the music was transmitted from the Opera Comique to the Bristol Hotel. It was of course all very interesting except to those like myself who knew and could pick out weak points - in fact the arrangement was very ineffective and not at all what it could be readily made. It was under the charge of that old woman Morgan. But this is not the object of my letter, so don't be alarmed. I telegraphed you that I would obtain the information you wanted on Christmas Day. Here in London both Gouraud and myself are altogether too busy to get together a sufficient length of time to exchange views on Telephone matters or Electric Light prospects. Mr Gouraud having extended an invitation to Mr Johnson and myself to come down and spend Christmas with them I accept in order to avail myself of the opportunity of having a full and free discussion with him on all these

2 matters that I may understand them and advise you. This Telephone experiment however, gave me the opportunity very unexpectedly of not only a full talk with him but I also had a 2 hours talk with John Pender. I think I now understand the Telephone and Electric Light-muddle pretty well. At all events I will endeavour to give you my understanding now and if-after my Christmas visit I am able to throw any additional light on it I will write again. Let us take these things up in the order in which they came into existence.

First; The Edison Telephone Coy.- Passed out of existence under the Consolidation Programme; division of profits derived from such consolidation as between Edison and the Company thrown into the Courts by Gouraud and being settled by the Courts in the usual hasty manner; a preliminary settlement made some time since in which the gross bulk of interest was passed over for division. That division was made and in it certain shares were passed to your account and subsequently sold by Gouraud at a figure a trifle more than one half of the present value of those shares. On my arrival in London I found that there was but one account in dispute and with that audited a final settlement of this Company's affairs could be had. It was as to whether a certain instalment of instruments from Bergmann were the property of the Edison Coy or the property of Bergmann on the day on which the amalgamation took place they having just arrived

at the Dock. The United Company took the ground that they were the property of the Edison Company — inasmuch as in the contract with Bergmann it was stipulated that Edison himself should approve the work for the Edison Co and that such approval having once been given the instruments became the property of the Edison Co. The Edison Co took the ground that Edison's approval was simply a preliminary matter and that Johnson's approval in London was necessary before they became the property of the Edison Co. I endorsed this view and explained that the only object of your supervision was that the instruments should be made in accordance with your ideas as to resistance of induction coil, general arrangement of the several parts and so on, and explained further that you desired to have this supervision because of the fact that other manufacturers in the United States sought to "improve" your instrument to such an extent that they improved it out of existence and that you had resolved that this should not be the case with the instruments made for the Edison Co by Bergmann but that this was simply a preliminary examination and that you yourself insisted that I in London should pass upon the workmanship finally before the instruments were accepted by the Edison Co. I have brought forward proof that this was the understanding and on that the Edison Co obtain

The

4) the price of the instruments from the United Coy which amounts to £1500. Since this was done notice has been served on the Edison Coy that a final settlement may now be had. It seems there are 1200 shares to divide; 600 of these of course go to you. They are selling in the market here now at £12 per share, therefore, there is a sum of £7200 for division between you and Gouraud. I will advise you immediately on receipt of these shares by Gouraud so that you may call upon him for your money as I certainly shall for my 5 per cent. Thus endeth the last Chapter of the Edison Company.

Consolidated Telephone & Construction Coy Limited. - $\frac{3}{4}$ Company was organised by Gouraud and several other parties as a manufacturing concern. It was afterwards used as a medium for absorbing the Gower Bell enterprise. It has a large capital and appears to have plenty of money and has been doing all sorts of things. I at first thought that it was a skin affair in which the public were to be inveigled only to be afterwards fleeced but I find that it has succeeded in obtaining certain very valuable contracts one of which is the monopoly of supplying all the Telephones required by the "United Company of England". It has other contracts of almost equal value; its stock stands pretty well and in fact it is on a very good basis altogether but you have no interest in this Company except a possible few shares which

5 Gouraud says he bought for you and afterwards sold at a profit. Whether or not they have been accounted for to you of course I know not.

Oriental Telephone Co. - (John Pender, Chairman)

This concern was organised originally for the purpose of working a few of the colonies. They succeeded in getting the thing into pretty good shape when Gower came over here and upset it by his dickens with the Government. Pender refused to go on unless Gower was got out of the way.

An attempt was made to absorb him by the Oriental Company but it failed. Gouraud then used his Consolidated Construction Company for the purpose and accomplished it by that means.

The Oriental Co was then put on its feet again and has been ever since quarrelling over petty details the last of which was the rebate which should be made by Gouraud and his party on account of the failure to deliver over China and I think Australia, or at least the failure to deliver them unencumbered. The original terms were as follows: - Oriental Co to pay £50,000 in cash and £100,000 in stock to the tripartite parties to the Contract, in these proportions: -
1/4th to the Anglo-Indian Gower Bell concern
2/5th to Hubbard and his parties and
2/5th to Edison. A concession was finally made

6 and only made within the past 3 or 4 weeks after a very hot debate which came well nigh dissolving the whole concern. The ultimate outcome was that £10,000 in cash was thrown off and £25,000 in stock; thus the payment to be made within a few days is now £40,000 in cash and £75,000 in stock. Out of this you get 2/6ths or 40 per cent both of the cash and of the stock. The stock, however, is a Deferred stock and can only earn dividends after the Preferred stock has earned 5 per cent for 5 consecutive years or an aggregated amount equal to that in a less time. These shares, however, I am assured by Gouraud will have a considerable market value and the Preferred shares are now at a considerable premium. The Cash division will not be made in full immediately as there is a provision that out of this £40,000 the several Vendors are to receive back their expenses. No limit, however, was made as to what those expenses should be; consequently that righteous old man Hubbard has put in a claim of £10,000; the Anglo-Indian has put in a claim of £2,000; Gouraud very shrewdly refused to put in his claim until he sees what the others were but he simply guaranteed that it should not be in excess of Mr Hubbard's. He evidently knew Hubbard. Now these Vendors will not agree to allow Hubbard £10,000; the result is that an

70 Arbitration is to be called and the accounts
raised upon. This will probably entail a long
fight over the spoils but Gouraud has so
arranged matters that the amount in excess
of these claims shall be immediately divided.
Consequently we have Gouraud's claim for
£10,000, Hubbard's claim for £10,000 and the
Anglo-Indian claim for £2,000 locked up
in the Treasury to be fought over leaving
£18,000 of actual cash to be immediately divided.
40 per cent of that sum is £7,200 for division
between you and Gouraud. The stock, of course,
is not affected by these claims and may be
at once divided. Now right here comes a third
claim, namely, your humble servant. You
will remember that this is the affair in which
Col. Gouraud promised me a 5 per cent interest
in return for my good offices in securing him
these Colonies from you and that on my return
to America I represented to you this fact and
asked you if you were content with the promise
made by him insofar as you were concerned.
You said it was all right; therefore on my visit here
last March I reminded Gouraud of his promise and
asked him how the matter stood. He had by that time
forgotten all about it but declined to look up the
papers which I told him he would find in his office
magnanimously preferring to take my recollection

8 of the matter rather than go to the trouble of looking up the papers. I have again called his attention to this promise and asked him where I stood. He recalls the conversation of last March and tells me I stand just there; he agrees to take my recollection and to pay me accordingly. He asks me if you were satisfied and I told him I had had no conversation with you since on the subject but that at the earliest date that I have referred to, you had given your assent and that I therefore concluded that you were entirely satisfied but that in order that he might know it I would get the acknowledgment from your own hand. Will you kindly send this to him. I had a long talk with Pender about this Oriental affair and he tells me it has the smallest capitalization of any Telephone Company yet organized on this side of the water, namely £100,000 and that its business is likely to be very great. They have already opened Exchanges in Singapore, Bombay, Calcutta, Rangoon and other places and he (Pender) is now about to leave on a visit to Egypt and is going to establish while there Telephone Exchanges in Cairo and Alexandria and is also going to connect those two places - 200 miles distant - by Telephone. He is very sanguine that Oriental shares will very shortly command a high premium. I have also this information from an entirely different source

9
and in looking over the grounds I am not sure
but what they would be a very good thing to hold.
I should therefore advise you to hold on to your
Deferred shares. In the adjustment of this
Oriental matter Gouraud managed to have Hubbard
and the Anglo-Lusitan join him in paying off
your old automatic Telegraph indebtedness to
Pender. How he did this I do not know but that
he did it is a fact. He will of course expect that
you will join him in paying the Edison proportion
of this sum - I think it was £1,000. My recollection
of the manner in which this thing was brought
about is this, that all hands were exceedingly
anxious to get Pender into the Oriental Telephone
Enterprise and that ^{Pender} after stipulating with Gouraud
that if he came in it would only be upon the basis of
his obtaining a settlement of his old automatic
claim. Therefore the settlement of this claim
became a bonus paid by Gouraud, Hubbard and
Glover to Pender to secure his cooperation and
in my judgment you have no more to do with
that bonus than you have with the bonus paid
to Moore for inducing him to organise the
Glasgow Company. Your refusal to have to do
with it will work no injustice to Gouraud
for the simple reason that he has been able by
reason of his connection with you to make other
Telephone investments such as the Construction
Company in which you were not interested

10. but from which he derived immense profit. He has, therefore, made more money out of the Telephone than you have and since the spirit of his agreement with you is an equal division of profits it follows that while the letter of his contract with you may have been lived up to the spirit of it has been evaded. I think you can put this in a way that will effectually stop him from making any further demands on you for assistance in organizing his Companies.

Edison Gower Bell Telephone Co of Europe. This is an organization effected by a combination with Puckas & Bailey, Gower Bell & Edison. An attempt has been made to induce Hubbard to throw in his interests but no terms satisfactory to the other parties could be had with him. The result is that the E. G. B Co is independent of Hubbard but in some way or other the Edison got a footing in Russia and Hubbard on attempting to do something there found himself cheek mated at all points. This resulted in a compromise which has just been effected so that the E. G. B Co of Europe now includes Hubbard in Russia. As there has been no work done by anybody in Russia with the Telephone that country is unique in this respect that the Telephone interests start there

¹¹³) from the foundation at the owner of all the Telephone Patents there are. Considerable is expected of a Company starting under such favorable conditions as to monopoly. The Edg. B. Co. was organized on the basis of shares simply so that when organized it was without capital to go on. In order to obtain this capital a ditcher was made with the Consolidated Construction Co. which Company paid in to the Treasury of the Edg. B. Co. the sum of £25,000 the consideration for which has slipped my mind. £15,000 of this money is to be paid in cash and used by the Edg. B. Co. for operating expenses; £10,000 is to be paid in instruments. Just what the Edison share in this Edg. B. Co. is I do not now remember nor how it is to be divided between you Gouraud and Pashas & Bailey. These missing links in the chain I will endeavour ~~very~~ to supply to my mental storehouse on my Christmas visit and will contribute them in another letter later on.

Now if you will make up a sort of Generalised statement of the accounts of money and stock that you have received from Gouraud on account of these various Enterprises and send it to me I will have it checked either by him or by his Clerk and a balance drawn in each case, approximated

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where actual balances cannot be obtained, and return to you showing you the exact amounts of both cash and stock that are yet coming to you and also on what basis the Companies are formed; what probability there will be of a market for the stock; what the present price is and so on. If you will then direct these things to be placed in my hands for disposal I will see that you realise the full value on Everything and that you get the money by Cable the moment the transaction is made. I will also supply Batchelor with all the facts in the case and consult with him whenever I think the time has arrived for doing anything and jointly I think we ought to pull up some chestnuts out of the fire for you without any very great trouble or delay.

Electric Light. Gouraud told Tabbari on our arrival that he held himself entirely at his (Tabbari's) disposal in the matter of the English light, that he would either go on or that he would stay out, just as Mr. Tabbari might elect. I saw the wily character of this innocent proposal and told Tabbari that

before accomplishing anything he would find that Gouraud was pulling the wires in all directions to get the control. This afternoon developed to be the fact. He not only attempted to purchase a portion of your interest but he also tried his hand on Lowry and on Tabbi and subsequently tried his hand at purchasing the whole thing, but of this Tabbi will tell you all. Failing therefore in obtaining control for England he turned his attention to the Colonies and finding that Tabbi controlled either for himself and you jointly or for his brother and others, certain countries, namely Norway, Sweden, Portugal, Australia and India he made a proposition looking to the purchase for these Countries. This proposition Mr Tabbi has sent you in the fiscal form in which it was put ^{by} Gouraud at Liverpool on the day Tabbi sailed. You will therefore get this better from his hands than from mine. The parties with whom Gouraud is dealing I do not know; he would not give me their names but told me that they were a party who had control of the Western ^{Marine}, and the fontin lights and that they were willing to pay £35,000 for the Edison for these Countries. He says that he told them

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that not one penny less than £50,000 would buy them and he tells me that he is confident that he can get this £50,000. Thus on the basis of 1/3rd top himself he makes a nice little speculation. I can hardly advise in this matter for the reason that I do not know all the interests that are involved but £50,000 is a down-right purchase outright for all these Countries seems to me a very inconsiderable sum. It is true that Norway, Sweden and Portugal are not of much value, and further that India, it is said, prefers gas or some other form of light, ^{and} as they required is little warmth that they relies on the heat thus obtained while if they used Electric light they would have to heat in other ways. Whether this is a mere specious argument or not I am unable to say but Australia alone ought to be worth that amount of money. However, you may judge of this for yourself.

Perder. I asked Perder how he stood in Electric Light matters and learned from him that he was interested only in the shares of a Company called The Eastern Electric -

155 Light Company which controlled the
Lamp-Fan and the Brush Patents. He has
the controlling interest of this Company and
has named the Board and Chairman; he
does not appear in it himself but his son does.
He tells me that he was interested in the
Electric Light and Power Generator Company
for England but that he got out of it and that
he has no interest now whatever in any
English concern. Gouraud stepped into the
conversation and bartered him on the
purchase of the Edison Patents for his
Eastern Company. He very positively declined
to entertain such a proposition and even
declined to sell his shares in the Eastern Co.
and go in with Gouraud for a new deal, on
the basis of the Edison Patents but in a walk
home at 3 P.M. with the Duke of Cornwall he
very gleefully informed me that the little
consideration that he had had would in a
few days result in Peirce making him
overbure looking to the purchase of the
Edison Patents. Whether this is a sanguine
view or whether the Duke understands the
great ex Peirce better than I think he does
will develop later. Mr Tabbin failed to tell
me in his letter from Queenstown, exactly

16)
what understanding he did have with
Gouraud in respect to these countries
and therefore I am only in possession of
the facts through Gouraud himself. I
can therefore do nothing in the matter
of Norway and Sweden as M^r Sabbe
wished until I learn from him himself
or from you what (if any) arrangement was
made with the duke. If you will bear in
mind that all this is simply the recollection
of one night and that they were gleaned in
the small hours of the morning after an
orgie, I think you will conclude that I
kept reasonably sober. At all events you
have got enough here to write me a letter
on and give me your further instructions.
I told Gouraud frankly that my object in
learning all the facts from him concerning
these things was to put you straight and
that you had said on one or two
occasions that you only understood
matters when they were sifted through
my hands. He expressed a desire to facilitate
so worthy an undertaking and told me
that if I did not comprehend fully everything
to come to him freely and he would
give me all the facts. You do not appear

170 to a Director in any Enterprise but
you have nominees - Goussard in some
instances, and in one I was named by
Bailey as your nominee on their behalf.
that is in the C. & P. Coy. I have not attended
any meetings for the reason explained
to Goussard that I would not go to a
meeting as a Director of a Company
until I understood something of its facts.
As I comprehend them somewhat better
now and will still better after Christmas
I shall attend the next meeting and see
what the boys do. —

Yours Truly
E. H. Johnson

STENOGRAPHIC

Amos

American Light
Dec 25.51
W. H. Painter

Washington D. C. 12.25.1874

My Dear Prof.
Prof. Phoebe C. Johnson.

I left you a letter the other day
from Mr. Conwell with the request that you
communicate. He tells me today that he has
not heard from you so I made an
appointment for you to meet him at
the Fifth Avenue Hotel on Tuesday Evening
at half past seven when he will arrange
with you about acting for the Edison Company
in New England. I expect to be there at
that time.

I find that Mr. Mahan whom
you set up in the Polyform business
has raised money in Boston and is

Settling up a large manufacturing of
 mica bediscent lamps. He has secured
 Ben. Butler to fight you in the courts.

I sent you, yesterday, a copy
 of his opinion upon which Wilkeson
 raised the money from a very few men.
 Please bring that opinion up to the
 Hotel on Tuesday evening as I must
 return it. Please keep your having it,
 for the present, Confidential

To the firm W.H. Printer?

write

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message.

Messages can be transmitted only by registered messages, and the Company will not hold itself liable for errors or delays in transmission or delivery of messages.

This message is an UNRECORDED MESSAGE and is delivered by request of the sender under the conditions signed above.

A. R. BREWER, Secy. *386* NORVIN GREEN, President.

Date *Dec 27* 1881.

Received at *791 BROADWAY.*

To *Samuel Insull*
65 - 5 ave

READ THE NOTICE AT THE TOP.

Will call tomorrow morning at 9

W. S. Perry

Cpd
csk

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message.

Messages can be transmitted only by registered messages, and the Company will not hold itself liable for errors or delays in transmission or delivery of messages.

This message is an UNRECORDED MESSAGE and is delivered by request of the sender under the conditions signed above.

A. R. BREWER, Secy. *386* NORVIN GREEN, President.

Date *Dec 27* 1881.

Received at *791 BROADWAY.*

To *Samuel Insull*
65 - 5 ave

READ THE NOTICE AT THE TOP.

no letter received
can I cable
that five percent
Contract all rights
only delayed for lack
time Frederick W. Foote

18pd sr

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

THE AMERICAN RAPID TELEGRAPH COMPANY.

EXPRESS MESSAGE.

This Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which have been accepted to by the sender of the following message. There can be no guarantee as to the delivery of messages back to the sending station for transmission, and the Company will not hold itself liable for errors or delay in transmission or delivery of Urgent Messages.

This message is an UNREPEATED MESSAGE and is delivered by request of the sender, under the conditions named above.

GERHART SMITH, Engineer-in-Chief.

L. A. MURKIN, Gen'l Sup't.

EDWIN REED, President.

| CHECK | NUMBER | TIME |
|---------|--------|------------|
| 20 paid | 68 MS | 3:30 P. M. |

From Boston 9/18/88
To Thomas A Edison
6:55 5:00 AM

Am coming to New York tonight

Shall be at St Nicholas Hotel will

Call Wednesday afternoon with

inflammable Cotton as you desired

O. J. Woodbury

Read the Notice at the station

Please pay no charges on this message, unless the amount is deposited hereon by the Company's Stamp.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

THIS COMPANY TRANSMITS AND RECEIVES MESSAGES only on conditional limitations, which have been accepted by the sender of the following message. It can be accepted only by the sender of the message, and the Company will not be liable for any loss or damage in transmission or delivery of the message.

This message is TRANSMITTED BY WIRE and is delivered by request of the sender under the conditions of the above.

A. J. GREEN, Secy. HORVIN GREEN, President.

DATE: Dec 28 1881.

TO: 791 BROADWAY.

FROM: A Edison

ATTN: Mr Saml Insull

65 Ave

I think I can

place ten thousand bonds

at same price if

answered at once

Frederick W Post

157th man

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

READ THE NOTICE AT THE TOP.

FIFTH AVENUE HOTEL.
MARION SQUARE, NEW YORK.
HITCHCOCK, DARLING & CO.

Ny-12-29-81

Sgt

Please tell Edison
that Osborne called me
to-night. He will
to-morrow sure - & I want
him to have the big dynamo
run on lamps about 9 or
9.30 - Wire me down
to care Reiff if he will
arrange it.

Please tell Nichols I
want to see him
to-morrow noon at same
place & to bring Butler
paper down with him

U. S. Pan'ca

John H. Porter.
Governor of New York.
Gen. Walter S. Bunn.
Chief Justice Stone.
Gen. S. Hamilton.
Wm. L. Porter.

P. O. Box 1836.

Porter, Lowrey, Loren & Howe.
Attorneys & Counsellors at Law.
No. 3, Broad St., New York.

Dec. 31.

1898.

Edison Telephone Co.
Europe Line, N.Y.
care of Mr. Griffin & Co.

Dear Sir, We have had returned to us
probably among the mass of papers.
mailed to you from Dec. 18th at meeting
for organization of Electric Light Co. (and
which covers by the way envelopes marked
"Big Pittsburgh"). Which are at service of
whom it may concern. Three affidavits
Eaton & Co. of agents in Belgium and
the State, published, being vol. 5 & 8 of
your series. delivered last June.

As I have repeatedly urged, all these
affidavits should have been, I think, and
be regarded closed. Why are there three
returned to us, & where are the rest?
(See my letter of Dec. 24. to you Co. & your
reply on this matter)

What I have these to be referred to be
disputed abroad.

Yours
Wm. L. Porter

The Edison Electric Light Company,

65 Fifth Avenue,

New York, 188

Norris Green, Pres.
S. B. Eaton, Vice-Pres.
E. P. Fisher, Treas.
C. Goddard, Sec'y.

Hughes' =

Ascertain 1st where the Earliest peaches Come from
when they are obtainable - prices - when first Delaware
peaches ready - prices at Spot & at New York =
freight rates from the Spot to New York = time it
takes train come through = Average temperature
of hold of Steamer in hot months =
How they are shipped to London after arrival
at Liverpool = Get the average time from
N.Y. to London = also Direct to London via
National Line = Ascertain if peach
Country or farms are far from Shipping
Stations =

Earliest Apples come
 from Florida & Georgia.
 North Carolina, Virginia
 Maryland, Delaware &
 New York each. Georgia
 are very good but
 hardly available as
 they are so far from
 market season begins
 about July 1st. Maryland
 and Delaware come in
 about Aug 1st early.
 commanding high prices
 but Delaware can be
 contracted for at 60 to 75
 cents a bushel on the
 spot. Freight from Delaware
 orchards quite low and

very low for season from
 market. They don't put
 fruit into the hold of
 steamers but in the
 steerage and Main Deck
 where temperature is
 never higher than 75°.
 Freight by National
 Line to London direct
 and delivered in four
 -teen days. For Cash
 No. 1 Apples \$1.28
 Each farm are in al-
 -most all cases near
 station.

John H. Porter.
Governor of New York.
Gen. Wm. Smith.
Chief Justice of the State.
Gen. J. Hamilton.
Wm. L. Porter.
P. O. Box 1830.

Porter, Lowrey, Liron & Stone.
Attorneys & Counsellors at Law.
No. 3 Broad St. New York.

13th

NY

Dear Mr. Edmund. I enclose you copy
of a letter addressed to Dept. & the
"Mining office" of our unfortunate State
of "Lewis" capacity. If you can obtain
it. I will be in possession of its patent
fee. I suggest that you get the
necessary action.

Yours truly
John H. Porter.

25-6-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

[Handwritten signature]

Mr. A. Edison Esq

Dear Sir

Will you be kind enough
to telegraph me what time I
can see you after 2 o'clock
tomorrow Friday upon a
matter of business

[Handwritten signature]

Ever truly
Your

Notary Manager

Notary Public in and for the State of New York
Should you wish to come up &
see the Machine I shall be happy
to await your arrival

[Handwritten signature]

Miscellaneous

Stewart
Casino

V. b. h. m. h.
o. m. u. v. u
L. b. G. n. d.
7. 2. e. 1. 1. 6

T. A. E.

Can you find
that for me today?

With that leave -

I want to get a
lot of things to ~~the~~ day
if possible. -

Will be back

Shortly

Truly

Walter

Give him check
for \$200 -

Dear Edison,

I have been very
sick for 8 days & personally he
as much longer. Would you
assist me a little financially
until I get able to work.
The Bealer is my daughter
who will explain fully

Yours Truly

J. A. Bonet

Regarding J. G. Smith's
relations with that party,
he says they are not of
a radical nature one way
or the other. He has had
dealings with him and has
his opinions of him as he
has of others, but does not
feel called upon to
express them -

Delaney

in re. to Smith's
relations with Sawyer

MEMORANDUM.

My Dear Editor

Office of the HERALD,

New York, 1888

The next time you are
up in my way, will you please
drop in on me.
My address is 43rd
86th Street

Yours,
Wm. L. Garrison

1881. Edison, T.A. - Accounts (D-81-005)

This folder contains Edward H. Johnson's account with Edison for the period 1875-1884, several accounts between Edison and George E. Gouraud concerning the telephone in the United Kingdom, and a list of promissory notes and their due dates.

Most of the other documents are trial balances and draft account sheets that were used in entering information into journals and ledgers (see Accounts Series). These have not been filmed. Less than one percent of the documents have been filmed.

No 1

(1875-1881)

E. H. Johnson's Account

| | | | | | | | |
|---------------------|-----|------------|---------|--------|---------------|----------|--|
| Jan ¹⁸⁷⁵ | 16 | cash | 5 00 | | | | |
| " | 17 | " | 12 00 | | | | |
| Feb | 8 | " note | 200 00 | | | | |
| " | 8 | " | 25 00 | | | | |
| " | 8 | " | 60 00 | | | | |
| 1876 | | | 302 00 | | | | |
| April | 120 | " | 25 00 | | | | |
| July | 26 | " | 100 00 | | | | |
| Aug | 5 | " | 10 00 | | | | |
| " | 12 | " | 10 00 | | | | |
| " | 19 | " | 5 00 | | | | |
| Sept | 6 | " | 5 00 | | | | |
| " | 8 | " | 15 00 | | | | |
| Oct | ✓ | " Rich | 9 20 | | | | |
| Nov | 2 | " | 10 00 | | | | |
| 1879 | | | 491 20 | | | | |
| " | ✓ | 8 App Phon | 600 00 | Nov 29 | By Eng Tel Co | 12 22 00 | |
| Aug | 16 | cash | 25 00 | | By Balance | 1816 20 | |
| Nov | 29 | " | 1242 00 | | | | |
| 1880 | | | | | | | |
| Jan | 28 | " | 700 00 | | | | |
| | | | 3038 20 | | | | |
| | | To Balance | 1816 20 | | | | |

No 2

| 1880 | E H Johnson Account | | | | 1880 |
|-------------|---------------------|------|----|---------------------|---------|
| | To Balance | 1816 | 40 | Feb 23 By cash | 696 50 |
| Apr 7 | To cash | 987 | 50 | Apr 1 " Wm m | 1000 00 |
| | | | | By Balance | 1107 20 |
| | | 2803 | 70 | | 2803 70 |
| | To Balance | 1107 | 20 | Sept 18 By cash | 2 18 |
| Sept 16 | To cash | 2 | 18 | By Balance | 1107 20 |
| | | 1109 | 38 | | 1109 38 |
| | To Balance | 1107 | 20 | Oct 1 By E. Rugman | 2269 58 |
| Oct 23 | " cash | 156 | 49 | " 26 " cash | 300 00 |
| " 27 | " " | 4 | 00 | | |
| | To Balance | 1301 | 89 | | |
| | | 2569 | 58 | | 2569 58 |
| Nov 18 | " Lamp & Dots | 875 | 57 | By Balance | 1301 89 |
| | To Balance | 451 | 32 | Nov 17 By House A/c | 25 00 |
| | | 1326 | 89 | | 1326 89 |
| Dec 1 1880 | To 10 Can. Potatoes | 3 | 37 | 1880 By Balance | 451 32 |
| Dec 10 1881 | " cash | 5 | 00 | | |
| Jan 5 | " " | 2 | 80 | | |
| | To Balance | 439 | 15 | | |
| | | 451 | 32 | | 451 32 |
| Jan 18 1881 | To House A/c | 8 | 00 | 1881 By Balance | 439 15 |
| " 27 | " Lamps | 150 | 00 | Jan 26 " House A/c | 230 75 |
| " 29 | " cash | 6 | 67 | By Balance | 74 77 |
| | | 764 | 67 | | 764 67 |
| | To Balance | 94 | 77 | By Balance | 105 60 |
| Feb 17 | " cash | 5 | 83 | | |
| " 19 | " " | 5 | 00 | | |
| | | 105 | 60 | over | 105 60 |
| | To Balance | 105 | 60 | | |

| 1887 | | No 3d | | 1881 | |
|------|----|------------|---------------|------------|---------------|
| | | To Balance | 105 60 | By Balance | 130 60 |
| Mar | 8 | " Cash | 10 00 | | |
| " | 12 | " " | 5 00 | | |
| " | 19 | " " | 5 00 | | |
| " | 26 | " " | 5 00 | | |
| | | | <u>130 60</u> | | <u>130 60</u> |
| | | To Balance | 176 60 | | |

Balance due J A Edison

\$130.⁶⁰/₁₀₀

J. A. Edison Esq^r
Glasgow Royalties & Share Account

English & Foreign
 24th May 1881
 J. A. Edison
 c/o Glasgow
 Royalties

| | D ^r | C ^d |
|--|----------------|----------------|
| Gross amount Royalties received | £10,000 | |
| <u>Less</u> 10 per cent to London by | 1,000 | |
| | 9,000 | |
| <u>Less</u> 5 per cent to E. A. Johnson | 450 | |
| | 8,550 | |
| <u>Less</u> M. M. Morse | 1150 | |
| J. Hoddard | 325 | |
| | 1,475 | |
| | £ 7,075 | |
| One half share of which is | | 3,537 10 |
| One half share of Rebate of £50 from 2 nd payment of Advanced Royalties | 25 | |
| One half share of payments amounting to £65 per share on twenty shares held on Joint Account (£1300) | 650 | |
| Amount received from Liquidator at rate of £55 per share on 10 shares | | 550 |
| 1879 Dec 24 Cable Transfer per Drexel | 1000 | |
| Cost of ditto | 3 11 | |
| 1881 May 11 Cable Transfer per Drexel Morgan | | |
| 6 th viz \$10,000 @ R 4 3/4 | 2062 18 5 | |
| 24 Draft on Messrs Drexel & Co \$1676 3/4 @ 4 3/4 | 346 7 | |
| | £ 4,087 10 | 4,087 10 |
| By O/E May 24 th 1881 | | |

T. A. Edison In account with J. E. Gouraud

Account Current

| | | | |
|---------|----------|--|----------|
| 1878 | July 25 | To baggage case from New York | . 15 6 |
| Oct 31 | . | Cost furnace & including shipping charge | 5 2 6 |
| 1879 | April 18 | Subscription Science Index | . 19 . |
| Nov 20 | . | Cash advanced G. P. Edison | 50 . . |
| | . | Subscription for Electrician | . 19 . |
| | | May 25/78 to June 25/79 } | |
| 1880 | Mar 11 | J. H. Johnson's charges | 109 10 . |
| | | Australian patents } | 3 6 . |
| 1881 | June 30 | Sundry cables | 252 16 7 |
| | . | Balance Telephone Board Account | 2030 . . |
| July 15 | . | Cash cable transfer | 2216 9 2 |
| | . | Balance down | |

£14,739 17 9

| | |
|-----------------------------|-------------|
| By Balance Edison Telephone | |
| Co. of London Royalties and | |
| Share Account | 32 3 11 |
| Balance Edison Reversion | |
| Account | 14,438 6 10 |
| Balance Advances to | |
| Engineers Account | 269 7 . |

£14,739 17 9

July 30 To Cable transfer per Vreuch \$11000⁰⁰

July 30 By Balance down

2216 9 2

G. & O. E.
G. & O. E.
207/18

T. A. Edison In agreement with G. E. Gouraud

Edison Reversion in Edison Telephone Company of London

1881
July

To 1/2 share (less 5%) Messrs
Penshaw & Penshaw's legal
expenses in connection
with Edison Trust

Balance to account current

186 8 8
14,658 6 10

£14,644 15 6

C & O
G. E. G. 29/7/81

1881
July

By proceeds of your share of 11,000
United Telephone Coy shares,
being number allotted by Mr Price
the Liquidator, under 1st dividend
of assets as follows

viz 1/2 share of 11,000 5,500 shares
Less Returned as per agreement 1,250

Leaving as number of shares to
Edison Trust 4,250

Less 3 1/4% C & A Johnson or 312 1/2

Leaving net 4,037 1/2

One half share of which is
proceeds 7 1/2 Edison Telephone
Coy of London shares your portion
I am purchases as per account
Edison Tel. Coy of London Royalties
and share of attached

200 1/2
2218 3/4

2,218 3/4 shares @ 6 7/8 14,647 17 1/4
Less 600 1/4 @ 6 7/8 per share 559 4

cash for 1/2 share @ £9.00 14,642 8
27 6

£14,644 15 6

J. K. Edison Esq. In account with Elbowand.

Edison Telephone Company of London, Limited

Royalties and Share Account,

| 1879 | | 270 of Shares |
|--------------------------|--|---------------|
| Nov ^r
1880 | To Cash paid "calls" amounting to 15 per share on shares held in name of Elbowand to account of J. K. Edison. | 5 475 |
| July
July 31 | • Cash remitted to you per Durol Morgan 16 1/2 | 3375 |
| Oct 27 | • Purchase of five shares on writ account in accordance with arrangement made with you at Hants Park for investment of your share of proceeds of discounted note. 5 Shares @ 125 | 625 |
| | Commission & Stamps | 2 1/2 |
| | One half share of which is | 631 6 10/10 |
| Dec 3 | • Cash part proceeds of Note sent to you per Durol 10000. say | 315 15 |
| | Balance drawn | 2000 |
| | | 32 3 11 |

£ 5197 18 11

Edo
J. K. Edison
200/1/01

| 1879 | | |
|---------|---|------------|
| May 24 | By Cash received from you for five shares your half of the ten shares applied for by me on the formation of the company and held in my name on your account | 500 |
| June 30 | • Cash moiety of £5000 advanced Royalties received from London Company | 2500 |
| | Less 5 per cent paid Lt Johnson | 125 |
| July 27 | • Cash moiety of proceeds of Note for £5000 due Dec 31 from London Company for Royalties, as follows:- | 2375 |
| | Amount of Note | 5000 |
| | Less Cost of discounting | 100 |
| | Gross proceeds | 4890 8 2 |
| | Less 5% to Lt Johnson | 244 10 5 |
| | Balance | 4645 17 9 |
| | One half share of which is... | 2322 18 11 |

£ 5197 18 11

By Balance to a/c current

£ 32 3 11

J. A. Edison Esq. in A/c with G. E. Gouraud.

| 1881. | | | 1881. | | |
|-------|-------|---|-------|----|---|
| July | 30 | To Cash transfer per Drexell, Morgan & Co \$10000 from \$27.50. | 2278 | 8 | 2 |
| | | 1 Cables | 2 | 8 | 0 |
| Augt | 4 | 1 Cash paid for Patents sent to New York & Paris | 11 | 4 | 0 |
| | | 1 Dividing Patents | 0 | 15 | 0 |
| | 5 | 1 Cash paid Messrs Elliott Bros for instruments in accordance with cable instructions. | 13 | 18 | 9 |
| | 31 | 1 Cables re Maxim Lights | 2 | 18 | 0 |
| Novr | 10 | 1 Cable transfer per Drexell, Morgan & Co \$10000 @ 44-8 1/4 | 2061 | 17 | 1 |
| | 30 | 1 Cables | 1 | 8 | 0 |
| 1882. | March | 1 Batchelor 15th gross proceeds United Telephone Shares as per instructions from C. H. Johnson. | 715 | 7 | 0 |
| | | 1 Cable transfer per Drexell, Morgan & Co. | 2970 | 0 | 0 |
| | | 1 Bernard Lazaritch's bill. | 59 | 5 | 1 |
| April | 25 | 1 Batchelor 15th, his instalment of the Oriental Tel proceeds viz £4775.000 | 855 | 0 | 0 |
| | | 1 Cable transfer Drexell, Morgan & Co | 3420 | 0 | 0 |
| | | 1 Cable | 0 | 8 | 0 |
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| | Debit | Credit | Balance |
|-------------------------|------------|----------|-----------|
| Note ✓ Peter Mfg Co | May 9.81 | 5000 00 | Nov 9.81 |
| " " " " | " " " | 6000 00 | May 9.82 |
| " " " " | " " " | 6000 00 | Nov 9.82 |
| Bond " " " " | " " " | 30000 00 | May 9.83 |
| Note ✓ S. S. White Est. | Sept 15.81 | 6349 14 | Jan 15.82 |
| " ✓ Geo. Place Mchng Co | Nov 22.81 | 7474 10 | Dec 22.81 |
| " " " " | " " " | 7475 00 | Jan 22.82 |
| " " " " | " " " | 7475 00 | Feb 22.82 |
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| | | <hr/> | |
| | | 27425 | |
| | | 11212.50 | |

1881. Edison, T.A. - Advice (D-81-006)

This folder contains unsolicited correspondence suggesting improvements in Edison's inventions, asking him for advice on technical matters, or requesting his assistance in improving or promoting an invention.

Approximately 10 percent of the documents have been filmed. Most of the documents selected for filming received a significant response by Edison.

140 p. 00.

Durham Mass
Feb 20th 1881

Dear Sir,

Since receiving the
Telephone you so kindly sent me
I have tried numerous experiments
with it both on the cable &
artificial cable used in the duplex
but am sorry to say so far
without success. I am confident
that the trouble is caused by
the polarization of the chalk &
palladium for on inserting a
very delicate galvanometer (when
experimenting on short circuit) in
the circuit, on breaking contact
a slight current is observed in the
opposite direction to the original
one & until that has subsided &

x battery at 2p about 40 volts

~~Telephoning~~
for $\frac{1}{2}$ sec or $\frac{1}{4}$ sec ~~the instrument will not return to zero.~~

I have made instruments in different forms & can get nothing at all reliable. The telephone when on the cable with 500,000 ohms resistance added & a condenser of .325-omic farad^x will answer to every reversal, but not when dots or dashes are sent successively without reversals, or when morse is sent with a double battery on the key, as the back battery on key is not on long enough to clear out the cable from its previous charge, & the slightest current is sufficient to hold over the diaphragms, can do nothing with an induction coil on the cable as the wave is too slow to form an induced current in the secondary, ^{which} is proved by putting a bell telephone

in circuit with the recorder,
the signals are perfect on recorder
but silence in the telephone, but
by putting in an interrupter in
circuit the telephone can be heard
all over the office. The instrument
(telephone) is exceedingly sensitive &
if it can be made to work without
"sticking" I think it would be by far
the most delicate relay yet found.
& just the one for cable work, it
acts so far just as a chemical
telegraph would (which it is in reality)
viz the talking would make the signals
run into one another. Any other experi-
ment you would like me to try I
should be happy to do for you, if
you will let me know of it. I
don't give it up yet by any means
as I am sure there is something to
be made out of it either as a

recorder or a relay. The difficulty
principally is to make it break
contact with a fall of potential
equal to about one sixth of the
potential that made the contact,
at present as long as one hundredth
of the maximum potential remains
in the cable it refuses to break
contact. A condenser of 11.6 mic far
charged with one cell of ^{about} 2 volts
will when connected to the
two poles keep the two points closed
sometimes for one & half minutes,
if the chalt is not very damp.
 Hoping to hear from you at your
convenience.

I am

Yours Truly
J. A. Edison Esq.
Menlo Park.
H. J. *Charafutines*

40, 002

65, 5th Ave.,
New York, Feb. 23d, 1881.

Charles Cuttriss, Esq.,
Duxbury, Mass.

Dear Sir:

Your very friendly and pains-taking experiments
pleased me very much indeed. I am quite sure you will yet prove
what we think possible. The thing can be done; let us do it.

Very truly yours,
Thos. A. Edison

Is there anything else you want?

Cancel
8/2/81
(40)
Leadville March 2nd 1881
Professor Edison

New York City
Dear Sir

I wish to submit to You construction and
have You give us Your opinion upon a
thing that is generally considered a fraud
by most scientific men, and miners -
as a general rule denounce it

As You think there is any mine of malleable
or fluid that is attracted by Lead
silver or gold, we are prospecting here
with drills. About one year ago, we were
pursued to send for an old man in
California, who possesses an instrument that
pointed to the place where Lead and gold
were found with a little wooden mat
about two inches long and half inch in
thickness which contains some heavy fluid
on this he passes two very heavy wheels
beneath 12 inches in length

takes one of these whale bones in each hand
and this little wooden piece will at once
draw to mineral bodies the allures two of
to take hold of the whale bones. and hold
in keep them from turning. but it will
draw towards mineral so strong that
it breaks of the whale bones. The old
man claims he has never found but
one person outside of himself in whose
hands it would work. while we were
thus engaged experimenting, a man from
New York - a friend of mine and now a
partner with him arrived. He was invited
to join us. We found the instrument
to work in his hands. and he could go
out & get the same results that the
other could although had no faith
in anything of the kind. He told us
when we would strike mineral and where
not - and so far not in a single
instance has he failed. we are at
the time working in a district of clays
but only where he claimed had mineral

takes one of these whole bones in each hand
and this little wooden piece will at once
draw to mineral bodies the alluvial kind of
to take hold of the whole bones, and hold
in place thus from turning, but it will
draw towards mineral so strong that
it breaks of the whole bone. The old
man claims he has never found but
one person outside of himself in whose
hands it would work while we were
there saying & experimenting. a man from
New York a friend of mine and now a
partner with him arrived. He was invited
to join us. we found the instrument
to work in his hands. And he could go
out & get the same results that the
other could although had no faith
in anything of the kind. He told us
where we could strike mineral and where
not and so far not in a single
instance has he failed. we are at
the time working in a number of places
but only show he claimed had mineral

We drilled on in this one since the
Paymaster mine in which he claimed was
the largest body of silver yet and had
in this camp and the Comstock lode
in Nevada was the only larger body
at a depth of 307 ft we passed through
a silver vein about 18 inches in thickness
assayed from 28 to 32 oz. silver & stopped
drilling there and sent for the man
with the pointer. by taking all the
angles we found its point of origin at
a depth of 500 ft. And he insisted the
instrument would not be attracted by so
small a vein and to go on down
we did so & struck 12th sulphate
carrying 162 oz silver some specimens as
high as 1200 oz also found three
feet of gold rock just above the
vein that assayed $1\frac{3}{4}$ to 2 oz gold
we are now sinking shaft to the
vein 505 ft is the depth. All parties
present will make affidavits to this fact. I
am myself. Mr Ben Boyd, Fremont Hill

A. H. Weber R. B. Stapp A. H. Ward of 54 Main
 St. New York. All the balances recorded
 of local. If we find the body of min-
 eral as represented we shall then the
 instrument could have upon examine its
 with us. I should be pleased to hear
 more from you in the future.

Respectfully

A. H. Weber

40.

Preserve for future use (not to be used)

Chas. Willing

Weber

Mich 2.80

Address F. A. Weber Route 1, Windsor

Connecticut

Local

Que Milling

H. L. Nicols

March 26th

re Separation
Gold from
Tailings

Circular
11/4/81

Ottawa, 10th King Street
March 26th 1881

Mr. Ederon

Dear Sir: Will you please
write me in answer to this.
if you can give me any information
in regard to making or fixing
the process by which you
separate the gold from tailings
which you do while at Cobalt
in this State and how I can
do it - I understand the full
process of the batteries for the
elutriating - and electrolysis
does it - I require much assistance
and if you can visit me the
particulars and have much

your charges would be
about what material quantity
requires - please answer
as soon as convenient - and
if I can fix up something
on a small scale which
would be convenient to carry
on - I am hoping to hear
from you soon - I am

Most Respectfully Yrs
- Henrietta L. Nichols
Etna Portland
Cal

I send of the acct of
your separating the gold from
old tailings also black
sands - what is the process
I wish to know - and how
I can fix up a machine
to do it - on a small scale

W. DENNEHY & CO.



Rademaker's Prize Medal Gins
Gold Medal, Sydney 1879

John-street Distillery, Thomas-street,

~~17 & 18 High Street~~

Dublin. Dec. 26th April 91.

J. Edgison Esq.
Mento Park.
New York.

Dear Sir,

Allow me to bring under
your notice an idea which has
crossed my mind lately with
reference to an application of
electric power. There may be
nothing in the idea, you can
best say whether there is or
not. My suggestion is, that
an electrical machine set
in motion by a compressed
air motor should in turn
refill same motor while
giving

giving forth sufficient superfluous
power for locomotive or other
purposes.

faithfully yours,

Wm. Dennehy.

P.S.

I must hardly point out
that the first filling of the
air motor should come from
some exterior source

W. Dennehy

H. BAUR.

BAUR & REGEL,

[S. C. S. S.]
G. REGEL.

EXCLUSIVE

FLOUR MERCHANTS AND MILLERS' AGENTS.

333 Broadway and 328 North Fourth Street,

NEAR FRANKLIN AVENUE.

St. Louis, Mo. May 5th 1888

The A. Edison Esq.

New York N. Y. Sir:

Your favor of 29th is recd.

Mr. Andrew Fitzpatrick instructs us, to lay his idea before you, depending on your "Point d'honneur" to do right by him, if the material proves the proper stuff.

Mr. Fitzpatrick merely suggests the material, your genius is to devise the shape & form of application.

We enclose sample of Asbestos

I hope, it will suit.

It is certainly not new to you, that in older times, bodies destined for cremation, were wrapped in Asbestos mantles. - Mr. Fitzpatrick uses an Asbestos wig since a long time, no signs of combustion.

Let us hear from you, & oblige Y^{rs} H. Baur

Suggestions

Ideas

May 5th 1888

Bain & Kelt

Suggests, Accounts

for use in

Law

Handwritten notes and symbols, including a large 'L' and various numbers and letters.

You think the climate has affected it at all, as when I got it, the diaphragm of the mouthpiece was loose, so I let it out - be tight?
Now should the vibrating needle be regulated in connection with the tin-foil; in revolving the cylinder without speaking into it, should the needle impress a groove.
I should be glad if you would favour me with any information that would tend to render the working of it more successful; my brother-in-law imported one as well, it proved also an unsatisfactory: there are the only two machines I run of in this colony. Kindly let me have a price list of your machines, & if possible illustrations of them, as I am deeply interested in the success of them especially

Ingagam, near Ladismith
Natal, S.E. Africa.
12 June 1881

Mr. T. A. Edison
Meuble Paris

Dear Sir,

Some months ago I imported a Phonograph, a hand machine, one of your patents. After various experiments the result is only sufficient to prove the connection to the theory; only certain words come out with any degree of clearness, such as "tomorrow", "failure", "Hurray". It is slightly different from the one in your pamphlet, the fly-wheel being attached to the handle, & in having a mouthpiece, with a diaphragm of skin. Do

3)

Re: Photographs, could have not
 got two or three, & am
 unable to read at night, thus
 your photograph if proved a
 success would ^{be a great} ^{deal}
 soon to a lot of people.

I suppose you have ^{been} ^{filled} ^{with} ^{phone-}
 books, ^{filled} ^{with} ^{phone-}
 books, ^{filled} ^{with} ^{phone-}
 books, ^{filled} ^{with} ^{phone-}

I am of opinion that your
 motor machine is the one
 to be of any value to any

person involved in ^{the} ^{case} ^{of} ^{the} ^{motor} ^{machine}
 I think you will ^{be} ^{able} ^{to} ^{use} ^{it} ^{with} ^{the} ^{best} ^{of} ^{advantage}

I am ^{of} ^{the} ^{opinion} ^{that} ^{your} ^{motor} ^{machine}
 is ^{the} ^{one} ^{to} ^{be} ^{of} ^{any} ^{value} ^{to} ^{any} ^{person}

Yours faithfully
 Alfred Knox

Handwritten notes and signatures on the right page, including a large signature at the bottom.

Waco, Tex.
Concordia Kans

Oct 4: 81

Mr Edison

Gilmer

In reading the
Article in Oct. No of Harpers
Monthly in regard to telegraphs
My attention was called to the
perforated strip invented by
you by means of which the forms
of the letters could be transferred
to the chemically prepared paper
Again in the fac simile
telegraphs of Cassell there
was given a drawing of details
on drawing paper & transmitted
as I understood it by a
tracing needle that passed in & out
and forth the paper as it
passed - and automatically moving
down at each vibration - Now
this idea occurred to me

Why the message could not be
written on a prepared paper
either with a peculiar ink
or by indentation with a
point as Manifold writing &
copying is done. Then have
a sufficient number of needles
placed sufficiently close and
covering a space wide enough
to cover the whole message
eg. 4 inches wide - then
pass the message at the trans-
=mitting end under the line
of points as you would pass
a comb over it for notation
if the current could be divided
among them all so as to be
divided in the same way at
the receiving end why would
not the result be a facsimile
of the message. Just as though
the perforated strip only 3

only by multiplying the number
of points you obtain the
whole message ready for
delivery at one process -
which I understand to be one
of the ends aimed at in
rapid telegraphy - It seems to
me the key to the whole matter
lies in distributing the current
among as many points. I am
not posted in such matters
you are - Is there anything
in my idea or is it practi-
=cable. Or has it been tried

a different number of needles
placed sufficiently close and
covering a space wide enough
to cover the whole message
eg 4 inches wide - then
space the message at the trans-
-mitting end under the line
of points as you would pass
a comb over it - or return
if the current could be divided
among them all so as to be
distributed in the same way at
the receiving end why would
not the result be a facsimile
of the message. Just as though
the perforated strip only by

only by multiplying the number
of points you obtain the
whole message ready for
delivery at one process -
which I understand to be one
of the ends aimed at in
rapid telegraph. - It seems to
me the key to the whole matter
lies in distributing the current
among as many points. I am
not posted in such matters
you are. Is there anything
in my idea or is it practi-
-cable. Or has it been tried
and abandoned = If you
can spare time to send
me your decision on it
is only a few words. I would
be glad - The point I want to
is. If the tracing point in the
fac simile telegraph makes a
mark in passing why would not

a hundred points passing along
beats it. make a hundred
parallel marks or dots. instead
of moving the paper the
distance of an inch to make
another parallel mark or dot
put a point there and let one
passing of the message do
the whole business -

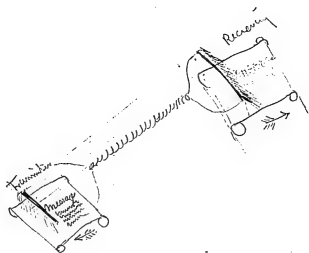
Respt John L. Gilmer

Concordia

Kansas

5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28
29 30 31 32 33 34 35 36
37 38 39 40 41 42 43 44
45 46 47 48 49 50 51 52
53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68
69 70 71 72 73 74 75 76
77 78 79 80 81 82 83 84
85 86 87 88 89 90 91 92
93 94 95 96 97 98 99 100

I give a rough sketch that may aid
you in getting my ideas. If the
current could not be sent on a
single wire why could it not
be by a small cable composed of
a great number of small insulated
wires and subdivided at the
offices where it was to make



Oaxaca, State of Morelos, Mexico Oct 7/81.

The writer claims to have invented an automatic electrical machine, which in producing the current engenders the motion. The machine is of simple construction is regulated in its reciprocating action by an automatic regulator. Its mechanical effects can be adapted to various purposes, the machine producing a free and steady current. By means of a combination more complicated it can be constructed to form into an electro magnetic turbine wheel of great power.

His official duties not permitting him to make public use of it in the state of Morelos nor in the city of Mexico and possessing not sufficient means to exploit his invention he offers them to Mr. Edison the illustrious inventor for perfection and ultimate practical exploitation.

(signed) Manuel Gallegos.

Don't believe in Perpetual
Motion

1st Nov 1881
67 King Street
Stirling

Dear Sir

I am very pleased to
congratulate you on your
splendid success with your
large engine

When if you had time you
would be a great favour by
putting me in the way to mag-
netic plates of iron 3 $\frac{1}{2}$ x 4 and
one inch thick

I want to find out the best mode
for creating friction when steel
bars better than soft iron on
lead or soft copper

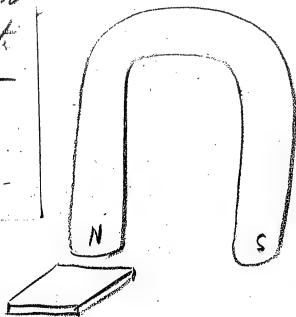
If you would do that I could
put you into a good thing and
when I succeed I would make
you a useful for your own use

Yours faithfully
J. P. Walker
Mr Thomas of Edinburgh
Electrician
New York

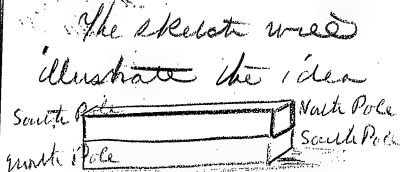
enclosed the wanted
is of course
I have sent you
the wanted
is of course

You cannot magnetize soft iron so that it will retain it permanently.

The only way to keep plates $3" \times 4" \times 1"$ thick magnetic is to keep a magnet very near or in contact with the plates thus:-



A good way to get friction between steel bars is to magnetize them and place opposite poles together, the attraction between the bars, depending upon the strength of the magnets will increase the friction.



I cannot give any better information as the language of the letter is very vague,

Chenier

Such "Laird" ~~idea~~ ^{idea} ~~would be of great value~~ ^{Post 6589}
but it would be difficult
to devise it. ~~Miss Lanyon~~

Aerometer

Elgin, Ill. Jan 6th 1881.

Mr. J. O. Edison

Sir,

From visiting many
school rooms, from the pallid counte-
nances and broken health of oper-
atives in factories and crowded
work-shops, from the generally poor
and unsanitary condition of churches and
halls where large audiences as-
semble, I have come to the con-
clusion that an instrument
which should indicate the pure-
ness or foul state of the air is
desirable that a pointer "though a

fol could not see therein, would
be one of the greatest bones
that could be bestowed upon
mankind.

Do you say "Well, what of it?"
Indeed I don't know what of
it, but I am confident were
such an instrument in use
an intelligent person would
sooner give up his thermometer
than his practical accelerometer.

With sincerest admiration
and respect, I am

Yours very truly,
(True) Paul C. Hawley.

The Evening News,
Detroit, Mich.
The Penny Press,
Cincinnati, O.
The Evening Chronicle,
St. Louis, Mo.
The Telegraph,
Buffalo, N. Y.
The Penny Paper,
Cincinnati, O.

The Penny Paper,

Cincinnati, O. Nov. 12, 1881

Prof Edison

Dear Sir,

The Common Council of Cincinnati has just passed an ordinance requiring manufacturers to place some sort of smoke consuming device on their furnace chimneys. There has never been a satisfactory test made here of any smoke consumer and there is considerable feeling as well as deep interest in the matter. May we beg you to write us giving your views fully on the subject. There is very strong doubt as to the practicability of the project in the minds of many, but an opinion from one so well known as yourself as a scientific and practical man, would do much to allay uncertainty. Truly with greatly obliged

Yours most respectfully, R. B. Ross

Re: 2
Culicoides, with
the 2nd 1/2 - 1/2
compared with little
about ~~the~~ 1/2
L.

Price
Nov. 12
G. W. Allen

Marshall and Co
Dated 11th
Dundee

206 Broadway, New York 14th St
New York Dec 14th
Mr J. H. Edgar

I am the current that
will be obtained by the wires that
your Company are now about putting
into the city for purposes of electric lighting.
I am utilized for operating a dynamo
of your make, which is now in use without
the intervention of a dynamo of
any kind. The current of
which, or that produced by a
rotary plate, or any other
means, has been found necessary
for power. It is necessary that
the current, to properly operate
same.

Now, will the current obtained
by the wires owned by your Co
be of such a
character that a small dynamo
- of induction coil, say constructed
to give a one inch spark, can

Amb Light
Dec 20
Lorqu

Make in light for
battery

Philadelphia Penna.
12-20-87

Mr. Edison,
Sir,

Having
been presented with two
one of your horse-
shoe small lights
and being desirous
of putting one
in my room
I will ask you
to inform me
how much electricity
it will require
for illuminating

with one of them
Also can it be
done with a
battery and induc-
tion coil?

Should the
battery required to
run the electric
engine in connection
with a pump
machine be sufficient to
work the

Samt Groze
1929 Chestnut St.
Phila.

Please don't
to the address
given and oblige
Respectfully
Samt Groze

5, Sydney Terrace, Kilsbarn.

London, Decr. 29th 1881.

Thos. A. Edison Esq.

Menlo Park, N. J.

Dear Sir,

I believe to have discovered the means of producing an incandescence electric lamp, in which both filaments of Carbon or Platinum ^{Coil} may be used, without requiring a vacuum, neither the Carbon nor the Platinum being consumed during their incandescence.

I should like to communicate to you the principle against your simple word as a gentleman, that you will not make use of my communication or any modification of the principle, except you adequately remunerate me, either by a cash sum, to be agreed upon, or payment in full, or back a royalty. Patents may be taken out in your name alone.

I have not spoken to
anyone person about
this matter, having only
just now returned from
the Caucasus, where I
have been boring for
oil during the last
three years.

I have been following
your instructions with
great interest, but from
a search at the Patent
Office here I feel certain
that neither here nor
in America a similar
invention has

has ever been patented.

A short reply will
much oblige

Yours faithfully

C. A. Bielstickers.

~~Confronted it with~~
with a ~~series~~ ~~series~~
~~series~~ ~~series~~
~~series~~ ~~series~~
advise him to work
it up himself & patent
it & we will then
be able to take
business

Miscellaneous

Dec. 30, 81

Prof.

The cheapest method of obtaining
Elect is by Steam at present
there may be reversed
there is no limit of
course where you
New York, Dec 30, 1881.

Mr. Thomas A. Edison.

Menlo Park, N.J.

Dear Sir,

As you are a practical man,
I would like to ask you if you
think there is any feasibility in the plan
of making Electricity from the use
of Steam, in other words, can it
be used as a Motive Power?

In discussing your numerous in-
ventions with a gentleman, he makes
the assertion that there is a limit
to "invention"; Is this so?

Coming back to the first question, I
understand that you have tried and
are now now at work upon the
problem; therefore I thought you might
be able to enlighten me a little, at
least to give me your opinion in

the matter.

Please excuse the liberty I take
in thus addressing you, but I should
like your answer if you can con-
veniently do so the favor.

Hoping to hear from you at your
leisure, I remain

Yours Very Truly.
James H. H.

1881. Edison, T.A. - Articles (D-81-007)

This folder contains letters requesting Edison to write articles; correspondence relating to articles about Edison or his inventions; and letters from journalists seeking to interview Edison.

All the documents have been filmed.

H. M. 1/2/81

A E Beach.

Scientific Amn/office

NY

Canntat you and Mr Munn
Come down Tuesday Evening
four twenty train returning
at six twenty. Have
seven miles lights

Edison

20 L.H.

KY. /

61. 9.

PENNSYLVANIA RAILROAD CO.'S TELEGRAPH

Received, _____ Office, _____ Operator, _____ o'clk. _____ M.
From. New York For _____

St Edison

Will come four twenty train

A. E. Beach

✓ Paid over
E 248 PM

publ. 16th St.
New York Jan'y 13, 1881

I thought you would be interested in the removal of a western paper ^{from} sending this mail - the Belvidere (Ill.) Standard in which I go to your defence. An item comparing your light and the Kelly motor was circulating and producing a bad impression - hence the correction. I was influenced to do this in return for the courtesy which I received when I visited your laboratory about a year ago. Y

Yours sincerely
William A. E. Day

Dr. J. M. P. and Edward H. M. Jr.
Of this is ~~no~~ ^{no} article ^{see Jan 19, 1888}
man, say it is very clear and ~~fact~~
I think him very much for it etc
Dear Sir

I come by this mail a
copy of our country Newspaper
containing an article on Health Path.
I had to write it, or "hush"; and
only desire to apologize if I
have talked too freely of what
I heard, and saw there.

Next week I lecture to a
country audience who are curious
to know what makes the music.

Respectfully Yours
Jesse G. Burk

J. E. Edison Esq.

DR. JAS. A. CAMPBELL,
Dentist and Aurist,
No. 1781 MORGAN ST.,
ST. LOUIS, MO.

Professor of Diseases of the Eye and Ear in the St. Louis Homeopathic College of Missouri.
Oculist and Aurist to Good Samaritan Hospital.
Oculist and Aurist to the St. Louis Children's Hospital

St. Louis, Mo. Jan. 20 1881

Mr. A. Edison

Mt. Park,
N.J.

Filed
N.J.

Dear Sir:

I am about to issue a little work on the "Mechanical Helps to Hear", describing the various appliances used to aid defective hearing. I mention the possibility of science offering something to us much to be desired. In this connection, I have heard that you had devoted some attention in this direction. I take the liberty to ask for information on this point. Can you direct me to any source which will give me any such information? In your opinion is it a possibility and likewise a probability, that any of the principles of the Telephone, or other recent appliances in acoustics, will ever have a practical application to aid defective hearing?

I recently made the following clipping from a scientific Journal - Is it a truth?

"Prof. Bell rather startled the Royal Institution in London in 1878 by announcing the possibility of hearing the

fall of a shadow upon a section of selenium
placed within the circuit of a telephone. It is now
proposed to utilize this discovery in measuring the
intensity of light and signaling long distances "2

Regretting if I occupy too much of your
valuable time I am

Very Respectfully Yours

James A. Campbell

J. A. Campbell
Jan 10 1898

I have just run up with you in the
line, now have been
and am now as to make
a Com. Bureau.

When is it going to be
working - O as the case. These
points to indicate the
so far about in the work of the
in the case your name, for

T. A. EDISON,

Menlo Park, N. J., 1880.

Mr Edison -

Dear Sir
I learned
yesterday that you were
at work on a book on
the light & called today
to see you in regard
to it -

I hope that
before making any
arrangements for its
publication, you will
see me -

Yours truly
J. B. Linn

John B. Linn

BE Spiers
Jan 24th 1844

His own sketch of the
Electricity of the
Chamberlain



Publication Office, 150 Lake.

CHICAGO

Jan 76-1887

Thomas Edison Esq
Menlo Park N.J.

We would be
pleased to illustrate and describe your
New Dynamo-Electric Machine in
our columns, as a matter of news
and would request of you the loan
of the cuts used in late issue of
Scientific American.

Hoping that you can favor us in
this matter
Very Truly
Bunch Editor
Industrial World

*to Chicago Press
G. B. Smith
April 29, 81
& write
minutes
for electrolysis*

LA ILUMINERA DE NOVA YORK.

35 BROADWAY

ARTURO GUYÁS, Editor.

P. O. BOX 1925.

Mrs. A. Edison Esq.

Dear Sir,

I have sent you
by Express a box containing
a page of la Iluminera,
with your portrait, biographical
sketch and autograph in catoken,
framed, and I beg you to
accept it as a token of
my admiration and esteem.

Very truly yours,

Arturo Guyás

N. Y. February 10th 81.

13 & 15 Laight St
New York
Feb 15.
2

Dear Sir:

As the New York
correspondent of the Yorkshire
Post (an important daily
newspaper published in
Leeds, England) I should
like to see over your
workshops & some evening
- say next week.

Kindly state on
enclosed card if this can
be arranged and when &
pretty oblige

Yours truly

P.S. Probably I should
come to bring a friend.

R M Tuttle

OFFICE OF THE
ENGINEER IN CHARGE
OF THE
NAVY

March 5th 1881.

Wm. Learman, Esq.

Dear Sir;

Mr. Edison
makes me to say that he wants
an electrotype of that 100
horse-power dynamo sent to
the New York Merchantile
Review at once so that they can
by it give an illustration of
same in their paper. Let them
know that it is loaned and
that they must return it.

Address is 824 Broadway, N. Y.

Yours very truly,

C. L. Clarke.

THAYER, MERRIAM & CO.,
(LIMITED)
PUBLISHERS AND BOOKSELLERS,

No. 781 Arch Street,

Philadelphia, *Feb 24* 1881.

Agents Wanted,
Liberal Discounts allowed,
Always give P. O. Address.

Dear Sir The above firm with
which Gen Grant's friend J. Russell
Young is connected have delegated
me to visit New York tomorrow
to get cuts or electors of elect of
prominent ^{known} ~~men~~ ^{men} & business
men to illustrate a work they
are about publishing entitled
"Common Sense in Business" and
they want yours. Will you
have the kindness to ask one
in the matter or have one
ready so that I can get it
without delay tomorrow?
Size of page 4 by 6 inches.
Yours Very Truly

E. J. Fessenden
Engraver of the for
following persons with address in brackets
Bandy, Brl, Astor, Conrad, Thos A. Scott
Asa Packard, A. J. Stewart, Hon. John W. Foster
Hon. Genl. H. H. Hovey, Hon. R. B. Keeling

Miscellaneous

Phay's

Merriman

26th Mar

in C.A.M.

Electrotype

Phil^l 2/36/87
Dear Sir Your secretary
promised me Mr F. that
he would arrange early
next week to secure for
us a good electrotype
of yourself to appear in
the book entitled "Secret
of Success in Life or Common
Sense in Business" an volume
of over 700 pages in selling
which we expect to have 1000
agents in all parts of the
Country. We know the true
typicity of you and his
engagements and write to
him of the matter first to his
collection for if we
cannot obtain one from
you we will use the one
we can get from Shelford

10 Bible House, being ^{the} one
in which you are sitting
in front of the Phonograph
but that makes you look
too young for a man who
has taken out 301 pat-
ents. (By the way please
close your eyes as we go
from saying underneath
that you are the only
man who has ~~received~~
our 300 patents before
he was years of
age. We could only
use the face of busts
of that picture.

If you haven't got an
elaborate frame for a word art
the Photo Engraving Co
(Brown & Pukeman 1238
Broadway) would make
one from a photograph

for \$12 or \$15. Your
attention will greatly
help.

Mrs. Reedy
Thayer Memorial
731 Arch St.
^{Lined}

We enclose the picture of
a horse which will ap-
pear in the work.

[ENCLOSURE]



15412

11/11/12

THAYER, MERRIAM & CO.,
(LIMITED)
PUBLISHERS AND BOOKSELLERS,

No. 71 Arch Street,

Philadelphia, 4/19 1881.

Agents, Publishers,
& Librarians allowed,
Always give P. O. Address.

Dear Sir,

We have not recd.
the electrotype of Mr. Edi-
son which you promised
to send us and as the
book is being printed we
are anxious about it. Please
let us hear from you in
regard to it & oblige
Yours Truly,

Thayer, Merriam & Co.
J.H.

1223 Belmont Ave.
Philadelphia Pa.
June 2, 1881
Dr Sir
I obtain a fine article in
the "Evening & Country" for June 1st published
in Boston Mass which advertises you
can you furnish the electrotype
of that cut as I would like to
publish the article
Yours Truly
A. E. Hoote

June 11th.

Dr. A. E. Foote,

1223 Belmont Ave.

Philadelphia, Pa.

Dear Sir:-

Will you send me a copy of the Boston News which contains the funny article about Mr. Edison you refer to?

Very respectfully,

A. G. Weiss

*Will you
tain the funny art.*

SCIENTIFIC AND MEDICAL NOTES, NEW
SERIES, BOSTON, MASS., 1881
PUBLISHED BY A. E. FOSTER, M.D.
112 NASSAU ST. NEW YORK
FOR THE PUBLISHERS AND THE EDITOR
OF THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
112 NASSAU ST. NEW YORK

June 13 1881

Dr Sir The paper containing the June article is not the Boston Herald I have none copy of the paper that I can send you. I will try and procure one for you. Please send me all for \$1.00 and I will send it to you. It is a small case but important to me as I have a large payment to make. Yours truly
A E Foster

SCIENTIFIC AND MEDICAL NOTES, NEW
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112 NASSAU ST. NEW YORK
FOR THE PUBLISHERS AND THE EDITOR
OF THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
112 NASSAU ST. NEW YORK

June 15 1881

Dr Sir I send you this day the paper requested with the June article ad- youself. Yours truly
A E Foster

6-15-81
E. A.

ENGINEERING:
AN ILLUSTRATED WEEKLY JOURNAL,
EDITED BY WILLIAM H. MAW AND JAMES DREDGE.
Offices, 35 & 36, Bedford St. Strand,
London, W.C.

29th day of Sept^r 1889

- Bachelor Esq
Paris

My dear Sir,

I have pleasure
in sending you a
copy of this week's Paper
containing an explanation
of the entirely unfounded
criticism which appeared
in Engineering a fortnight
ago.

Yours truly

James Dredge

14 Rue de Valenciennes
Paris, Oct. 2.. 87

Dr J. A. Edison
65... Fifth Avenue
New York
Etat. Unis d'Amérique

My dear Sir:

I send a rough dictated copy of Du Moncal's article on your light which I send off as it stands to catch to day's mail. When I think of my first visit to Du Moncal and look at this article I cease to wonder at the changes which persistent effort (for right or wrong) may make in the mind of man.

Faithfully yours,
Otto Lillicrap.

highest heat developed in the lamps, and different arrangements of apparatus were contrived just together at various times by King, Ledyard, Bertholme, Levan, Sawyer &c., some as a ~~result~~ ^{consequence} by enclosing the lamps in receptacles where a vacuum had been made, others by filling these receptacles with gases unfit for combustion, such as nitrogen or oxide of carbon, or simply by leaving air shut up in the receptacle to exhaust by an incessant action.

All these attempts had but partially succeeded, to say nothing more now in 1839 the new incandescent carbon lamp of Mr Edison was announced, and many doubts and myself in particular, doubted the practicality of the allegations which came to us from America. The carbon lamp was shown to me, and appeared incapable of lasting mechanically, short, and of supporting incandescence for a great length of time. At this epoch Mr Edison himself said that up to that time, he had not been able to attain any very satisfactory result by an analogous disposition of the incandescent organ.

Mr Edison himself has not desisted, and in spite of the lively opposition made to his lamps, in spite of the bitter polemics of which he has the object, he did not cease to perfect it for practical purposes, and has at last produced lamps, which we have seen at the Exposition and which can be admired by all the world for their perfect steadiness. These lamps to the number of 60, light the two salons devoted for the discussion of the ingenious American invention, and we shall see still more important results upon the installation of the great machine, which is copied from America. By

As at present made, these lamps are sufficiently solid and can last a long time. The originally fragile carbon has become extremely elastic and hard, and of such a nature that it can be well compressed by a horse hair. By an ingenious coating, closely combined system of fastening the filament and conducting wires and not exposed to heat, and thus are so sealed in the glass vacuum that their change of volume under the action of heat does not endanger the perfection of the vacuum. By the same way the carbon is sealed in the vacuum. The vacuum is made in the globe, the bubbles of air enclosed in their pores and which in speaking disengage themselves, are evacuated before blowing the lamp, and at that same time the filament of each acquires a peculiar ductility and hardness as was the case with the platinum wires. To attain this result the carbon filament must be brought to incandescence while the vacuum is being made. The very nature of the substance of graphite requires, employed in its fabrication has been modified. Fibres of bamboo are not used instead of the paper originally employed. These are carbonized by a certain process and the successive transformation of these fibrous carbon filaments may be followed in several collections to be seen at Mr Edison's Exposition and which will gratify the curious, and are worthy of study. According to Mr Bachel and a M.O.A. process of fabrication of Mr Edison and my representative here at the Exposition the existence of these filaments brought up to an incandescence corresponding to 16 candle, but it can vary according to the numerous power desired of the lamps, so it can be distributed between two lamps whose filaments are correspondingly more or less long. Their properties which are not at all perfect in a kind of platinum wires, which formulate the platinum conductors and which are soldered by an electrologically deposited copper. Fig 1 represents the original arrangement of these lamps. The derivation of them that I have

been secured is long enough; however, they must wear out. Although most of them may have served for 1200 hours, the question may be asked whether a lamp capable of deterioration may be considered a practical thing, but if it is considered that these lamps can be furnished for 30 cents that the adjustment cannot be any simpler than it is which is evident on inspection, it is easily seen that it is no more trouble to replace one than to renew a broken lamp shade.

What constitutes Mr. Edison's system is not alone lamps, it is the totality of the arrangements referring to them and which have allowed and which a degree of simplicity, that nothing remains to be desired in practice. Generating machines, distribution of currents, installation, collecting and regulating apparatus, means of measuring the amount of current employed, are all combined for immediate application and as we have said, there is about being made in a part of the City of New York, where a great number of houses are to be lit by this system by means of a subterranean distribution from a central station from which also sections of wire will be distributed to the houses.

This central station will be provided with twelve alternating dynamos of 150 horse power each, and each with 1200 rotating engines or electric machines each of which will be able to supply it is said, 2000 lamps of 8 candle power. The current furnished by these lamps, comes from a branch taken before each house from a large size conductor laid in the streets. These divisions arising at these the poles of the generator into each house, where the lamp wires can be brought in connection with them, in this way rendering each house independent of any other, & the full supply of light and motive power.

When it is considered that by the system of distribution adopted by Mr. Edison, the total resistance of the electric circuit is extremely reduced, and that with 1000 or it is only 10000 ohms or about 1/100 of an ohm, it is easily understood how a very feeble resistance should be given to the generating machines; so that consequently, the first arrangement has been made to begin with the first six or seven sets arranged on a division taken from the commutator, putting it into the circuit as in the mechanical system. Thus the armatures arranged on common principle, ~~was made up~~ ^{part of} of copper. There are six close to each other around the cylinder which forms the armature and they generate the current. Their extremities correspond to discs of copper at right angles to them, laid one against the other at the ends of the cylinder and insulated from each other. From each disc is fastened to its corresponding disc in such a way as to form a single circuit enveloping the cylinder longitudinally, and which is made perfect through each of the bars with the commutator blocks, (made after the same pattern). Fig 2 & 3 show an idea of this new arrangement. The centre of the cylinder itself is occupied outside of the rotating axle by a cylinder of iron, surrounded by a thick tube made of a series of very thin discs of iron, separated from each other by loose paper. This arrangement facilitating the changes of polarity in the plate. This tube is braced at all its extremities by two thick clamping discs which compress the other laterally, and the copper discs of the commutator, and occupy the two compartments of the two extremities of the cylinder as seen in Fig. 2. Under such conditions as these the resistance of the generator is small and permits of great extension of the

4. current in multiple arc. ^{See} is shown any oscillation to be turned and it is even possible in case of the determination of the bars to remove them easily for they are simply secured ^{against} to the copper discs corresponding to the bars. In the new disposition adopted by Mr Edison the field magnets lie horizontal instead of being placed in the vertical.

Fig 4, represents the whole machine as now actually working in the Palais de l'Industrie.

We have described the generating machine before completing the description of this system of distribution of the current, because brought to speak of the system of control used in making the current uniform when its intensity has been modified by a variation in its distribution, that is to say, following after a variation resulting from the unexpected suppression of a certain number of lamps in a part of the system. The necessity of this system are easily understood, if we consider that this suppression can lead to a greater or less increase in the intensity of the currents feeding the remaining lamps.

In France several systems have been devised, to obtain an automatic regulation, but in America it seems it is preferred to effect this by the intervention of an controlling agent.

In this system whose general arrangement is seen in Fig 5, the current which feeds the lamps furnishes a derivative at the machine at which, ^{in the form of} ~~in the form of~~ electric dynamometer, after having gone through a resistance of 3000 ohms. The electric motor force should be about 110 volts and a difference of 1 volt ^{shows} correspond on the scale of the measuring apparatus, to three divisions; consequently for each ohm of intensity a resistance capable of compensating for it should be introduced into the circuit for this purpose. Mr Edison has established a circular commutator ⁱⁿ with both of different resistance which permits of changing almost an increase of resistance, not in the lamp circuit, which would lead to a loss of work, but in the circuit of the field magnets, which makes their action on the working coil. From the central station also the conductor of the current affecting the lamps can be controlled by means of a rotating photometer, which enables us to see how much the intensity of the current must be diminished or increased to correspond to a given luminous intensity.

For this purpose the photometer is mounted on a little carriage placed in a dark chamber and under and in front of it is placed a scale arbitrarily divided so as to indicate immediately the candle power furnished by the current in its many conditions. The left side of Fig 5 indicates the manner of arrangement of the testing table, ^{under} ~~under~~ the explanatory table at the bottom of the figure. Fig 6 shows them in perspective. The manner in which derivatives are taken on the principal conductors must be specified. The conductors are composed of two rods of copper of hemicylindrical form, flat on one side and round on the other, which are enveloped in cylinders of insulating material.

(Contained in small wrought iron pipes) which are buried under the streets. It takes a derivation the cable is laid beneath spot where the branch circuit is to be established. The two conducting cable (running from the main conductors) are cut and bent outwards where laid introduced into a clamp where they are collected to the house wires as shown in fig. 7. but in order that no harm may be done by too strong currents out of these communications is made by intercalating a bit of wire in the branch circuit shown at the bottom of the figure and which by its friction interrupts the circuit. This is what is called in America a 'cut off' and in this way it prevents deterioration. The box is then hermetically closed and covered with an insulating coating. In the figure the branch wire are shown double but it is evidently they would be single.

We said that full arrangements had been made to make the entire a perfectly practical one of that we will now be able to judge sit in example. Just how the clamps supports and the lamps themselves are disposed. This has been seen they are formed of glass globes of oxid iron, cemented into copper sleeves by means of plaster and bound into cylindrical casts surrounding the supports. These are in kinds of arm which can be adapted to brackets or chandeliers or be arranged around the walls. In the last case the arm as is shown in fig. 8 carry two articulations A, B, and communications are made. A, B, plates of the hinges which are insulated, and on whose axis the fast tin springs freely seen in fig. 9 & 10. Communications of the conductors into the lamp, as we have indicated above are made by a lead wire but off which any metal and interrupt the circuit in case of the great quantity of current ~~from~~ should endanger the lamp, ~~with~~ ~~support~~.

In these brackets as in the three branch chandeliers, as represented in fig. 11, cups have been introduced which allow the extinction of the lamps separately or together without causing any spark at point of receptance or any leakage of fire. The front part of the key A is as shown in fig. 9. This breaks the contact by means of a conical stopper which terminates, one of the key, and which when separated from the two plates through which the current passes, when the stopper is in contact with them, breaks the circuit at two points and as a surplus of sufficient extent to greatly diminish the spark at the point of rupture.

The lighting of the two salons of Mr Edison at the Exposition is done by 16 chandeliers like the above, two grand crystal chandeliers, and 80 brackets. Fig. 12 represents one of these chandeliers.

The effect is very beautiful, the steadiness being as complete as could be desired, and if as I have been assured the price of this kind of illumination is lower, light for light, than gas, ^{may be} considered that the problem is on the very solution, for an Edison system of distinct lighting is placed in the same conditions as that of gas. It avoids the presence of machines in separate rooms which always are in the way and which by their very nature require care and supervision not to be obtained from ordinary servants.

8 As a complement to his system, Mr Edison has constructed first the chandeliers represented in fig 13, and, second, regulated lamps shown in figures 14 & 15 which furnish of reducing the light in any desired proportion. It is a carbon sheet that composed of carbon pencils of different sections, which as the current passes through one or the other attains of any desired intensity. The apparatus is encased in a cylindrical cover pierced with holes to allow of the escape of heat and surrounded by a lamp which indicates to the eye the desired degree of ^{illumination} light. It is worked by a disc shown separated in the lower part of fig 14, and which can be turned so as to bring a contact spring into any of the supports of this carbon whose position is indicated by an index and divisions engraved on the base of the cylinder.

But what is most ~~interesting~~ interesting of all in these accessories of Mr Edison's system, is the meter which determines its amount of electricity consumed by the lamps. There are two ^{kinds}, one automatic like a gas meter, the other requires weighing. They are now ever both founded on the same principle that is to say, on the estimation of work by the weight of a copper deposit produced by the ~~a portion~~ of its current used. We will describe these last indicating pieces of apparatus hereafter, and give drawings of them, before we finish our account of the invention.

In magnifying a balance having all the experimental details indicated in the accompanying sketch, two copper discs, called plates of copper forming two electrodes, let us admit that these two systems of electrodes, which plunge into two vessels filled with a solution of copper, and furnished with fine electrodes, are traversed in an inverse direction by the current employed, and which can cause the balance to operate under a given weight of copper deposited from the solution. It is easily seen that the movement brought about by these conditions can be set in motion a current reverser which can change the conditions of the deposit in such a way, that the electrode covered with copper is transformed into a soluble electrode, while the other which was originally in that condition becomes the depositor. *Ch. 1. 1*

[illegible]

The realization of this idea has necessitated some electromagnetic arrangements which we will describe in detail when we get the drawings of the apparatus.

The other system is more simple, consisting of two voltammeters of sulphate of copper whose electrodes can be easily taken out and weighed, as the work done can be calculated from the weight of copper deposited. One of these voltammeters is open to the subscriber, the other is kept closed by the controller. Both of these are introduced into the circuit corresponding to these resistances, permits of great of the employment of greater or less periods of registration. A small incandescent lamp placed beneath the apparatus and which can be thrown into circuit for the purpose by a switch inside the thermometer prevents any danger of freezing in extremely cold weather.

There is another application of Mr Edison's light which can be seen at his Exposition in a model intended for the lighting of galleries in mines. In this system arrangements are provided so that the lamp is introduced in a glass receptacle filled with water and held in suspension. The communication of the apparatus with the circuit is arranged in such a way that the points of contact are covered by water which avoids any danger of explosion in mines infected with fire damp.

To give an idea of the application of Mr Edison's system, we have represented in the large engraving accompanying this article fig 17 the interior of a factory lighted with the small incandescent lamps previously described, so that it is seen the electric light is perfectly demonstrable, as well as the best arrangement for exhibiting and testing this method to be prepared by Mr Edison, but as can be seen above described that all styles of lighting can be produced with this kind of light, analogous to that obtained with candles or gas jets. It is simply a matter of fact.

Mr Edison's lamps are not alone employed in the salons reserved for him, they are to be found in various places throughout the great nave, notably at the exhibition of the American Machinery at the bottom of which we gave a drawing of a furnace and that at the exhibition of Messrs Sautter and Renouvier. At these two places the currents are furnished by his dynamo machines type A and each one lights about fifty lamps. Now that Mr Edison's great machine has arrived at the Exposition it will be possible to obtain with the incandescent system, illuminations of greater magnitude. The banding of the grand staircase will be lit in this way. It is proposed to accomplish this by means of a crystal chandelier of 144 lamps and of others furnished with 25 lamp each, to be hung from the different panels and of grand chandeliers standing on the 16 pilasters of the staircase. This will produce an enchanting effect and a brilliant illumination. I am not quite sure that the mixture of arc and incandescent lights is a happy thought. It is evident that the latter destroy the effect of the former and ought lead me to believe that the luminous intensity of the incandescent lamp is less than it really is. Adding the difference in the color of the light is so contradictory that many persons who approach the electric for the first

8 As people find it too acid on incandescent lamps. It is evidently an effect of acuitas, for the light of incandescent lamps is brighter than that of gas jets which nevertheless these same people find very agreeable. If regarded, incandescent lamps can give a dazzling white just as well as the other, it is only necessary to employ a stronger electrical intensity; then they lose their peculiar qualities that of giving a soft light which does not fatigue the eye and of an elastic and gradual complete submersion.

of kind of an "excuse" and a "most complete subversion" of it is certainly very difficult to satisfy very fully, and that many persons hardly know what they do want, above all when the effects of contact momentarily impair the power of judging correctly. On the other hand there are certain fault-finding spirits who are never satisfied with anything, and, indeed, the author of that inimitable article that recently appeared in a certain journal, who pretends that the only disadventages and ^{disadvantages} of the telephone were could be heard in the telephones from the Opera. The author in question who could perpetrate such an enormity, ^{must} have had his ear as sick as his humor. The crowd pursuing every evening before the telephonic rooms at the Exposition is the best best proof of the invalidity of such judgments, and by this can one more see the value of the scientific neutralization of certain political claims.

the cause of the inevitable misdirections of certain political groups. But the same thing happens in the electric light, and quite a number of persons who without previous examination + who do not understand being of the same opinion for days consecutively come to us and disparage electric lighting. It is certain that our opponents have great difficulty in coming to light and in succeeding above all show they are opposed by real interests, but when they are really good, they triumph in spite of all obstacles to the great advantage.

We found it like to give some information that the steam engine machine but as they are not so full as in the design of another time. We are not so sure that the steam engine was evolved expressly for this application, that it makes no noise, and that the dynamo electric machine forms one of its integral parts. The field magnets of this latter, mentioned in place of being horizontal as in the model presented in fig. 2 is horizontal and the dimensions of the machine differ somewhat.

The steam engine which works the machine is of peculiar construction, and the speed of rotation which is communicated to the working coil is 1000 turns per minute. This is not a very great speed, but the working is very heavy, and as we are told, over three tons and a half. The magnets are of iron, which is turned by three powerful electric motors furnished so as to form but one at their extremities. In the case of Mr. Edison are a collection of photographs among which may be seen some of the manipulations which are engaged on, where the enormous amount of material required in these installations is constructed. As we have observed one of these samples taken out 2000 lamps a day, giving occupation to 175 persons.

9 In accompanying drawings and collections can be seen methods of glass blowing, the carbonizing of the filaments intended for incandescence, the vacuum pumps & the mounting and packing of the lamps. The pumps referred to are set in motion by dynamo electric machines.

From all this one sees that Edison's system today is complete, perfectly studied out in all its parts, and ^{is} nothing more remains to be done but to introduce it on a great scale.

Th. du Moncel.

Miscellaneous

THE NORTH AMERICAN REVIEW,
NEW YORK, N. Y.

Am

Oct. 1880.

Thomas A. Edison, Esq.

Dear Sir:

We are making a collection of the photographs and autographs of the most prominent authors who have contributed to our pages, for preservation at our office. Will you kindly favor us by writing your name at the bottom of the enclosed, and returning the picture in the directed envelope that accompanies it.

Yours very truly,

The North American Review.

Jos. C. W. C.

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COOPER UNION BUILDING,
(35 and 37th Aves. and 8th St.)
NEW YORK.

The Inventors' Institute,

COOPER UNION,

New York, Oct 21st 1881

Mr. Edison,

Dear Sir:—

As the editor of the Industrial News I shall be pleased to publish as full an account as I can get of your exhibits at the Paris Electrical Exposition; also some mention of the 22 new patents recently awarded to you by the Commission. If you can furnish me with the information, as will make an appointment, I shall do my best to set forth the facts pointed in this proper list. I write you this note under advice from the clerk at your office.

Very Respectfully

Julius Walker

27-7-81



The International Newspaper Agency,

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City of New Haven, State of Connecticut,
United States of America, Oct 22 1881.

M^r Thomas A Edison
Menlo Park N.J.

Dear Sir -

By this mail find a copy of
the "Papillon" of Paris France containing your
portrait & auto biography.

If you wish any
Copies of them, as Agent, I will send
for them.

Awaiting your reply I Remain
Yours truly
H. P. Hubbard



D. VAN NOSTRAND,
PUBLISHER, IMPORTER AND BOOKSELLER,
23 Murray and 27 Warren Streets,
P. O. Box 1111. New York, *Oct 24* 1881

Same dear Sir

Dear Sir, Please
send me by boy
a copy of "Laumei's
Rhetorique" containing
Dumoneels article
as I have mislaid
my copy.

Yours truly
C. B. Speer

Please forward to me

Oct. 23th,

Fuller Walker, V.D.,

Editor of the Industrial Review,

Cooper Union, City.

Dear Sir:-

Referring to your letter of the 21st, Mr. Edison requests me to say that the Scientific American will, in the course of a week or so, publish an important article on the matter of Electric Lighting Exhibit at Paris, by Comte du Moncel. This will give you a good deal of information and I can no doubt get extracts of the cuts for you.

It is very difficult to make an appointment with Mr. Edison, if however you will let me know what time will probably suit you I can doubtless arrange one for you or perhaps I might be able to give you the information you desire for the purpose of an article.

Yours truly,

Secretary.

7 1 1
133 East 16th St
New York October 26, 1881

Thomas A. Edison Esq.

Dear Sir: I have had so far
four articles published by the Popular
Science Monthly. I am writing
another in which I say:

"Watt applies to wider use the
"lifting power of steam as seen in the
"upward motion of a tea-kettle
"cover, and Edison applies the
"lessened friction between electrified
"metal and rough paper to the general
"purpose of reducing the friction of
"machinery - at present this general
"principle is used to increase the
"sounding power of the telephone"

If I have made any glaring
mistake here I would feel obliged
if you would kindly point out any
serious or obvious errors.

Very truly
133 East 16th St. William A. Eddy.

Given to his
letter of 1966
that his article is
in his article is
pen - as usual

MacWilliams

Ad 2.6.81

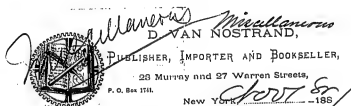
Edy
Pop Science Press

Barnes, N. J.
Oct 13/1887

Dear Sir,

Will you please
inform me if you
have a school for
the education of
students in the
art of performing
Electric Telephony
for me. Please
give me the in-
structions for my
own use, and for
the newspapers I
represent, and any
other you choose
for publication.

Yours obdly servt
W. F. Rodgers
Reporter



J. P. Sullivan & Co.
D. VAN NOSTRAND,

PUBLISHER, IMPORTER AND BOOKSELLER,

23 Murray and 27 Warren Streets,

N. Y. Box 1711.

New York

1881

J. Addison Esq.
D. F. R.

I enclose
herewith proof
of Dumonce's
article. I have
arranged that
the big cut first
intended for
Shellen's book shall
be ready in time
for the article
so you had better
describe it in
a foot note at
some length. I

I shall not reproduce
the drawing room
or chandelier cut
in *La Lumière
Electrique* as
they seem ~~too~~ to me
unnecessary. —

Yours truly
B. D. Speer

Mrs

THE NEW YORK WORLD
EDITORIAL ROOMS,
Nos. 51 and 52 Park Row.

7 November

Dear Mr. Edison

This will introduce
to you Mr. Frost, an Australian
journalist who is anxious to
make your acquaintance
and be included in one of your
circuits. Will you kindly
receive him with the good
nature you used to show to
me.

Very Truly
D. S. Lynde
City Editor

Received
Nov 3, 81

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NEW YORK.

The Inventors' Institute,

COOPER UNION,

New York, Nov 8th 1881

Samuel Insull Esq.,

Secretary

My Dear Sir:—

I hope you will not forget to collect such data as you can for me in relation to my article on Dr. Edison for the next issue of the Industrial Record. I am anxious to get to work on this article, as it will take some time to prepare—your done, & I expect to make it valuable and readable. I had you a copy of the West, with the Edison article, and will soon mail you the November number. If you can arrange for me, even, the proposed interview with Dr. Edison, it will be of much help to me.

Truly Yours,

Julius Walker Reid
Editor, etc.

Best Advertising Medium in Central New York.

Daily (No. 1) \$5.00 per Year.
 Weekly (No. 2) \$2.50 per Year.

Office of the UTICA MORNING HERALD,
 Utica, Nov 17 1881

Mail your paper today.
 If you have anything handy
 printed about your electric
 locomotive please mail to me.
 Director Arkell of the Mt Mansfield
 R.R. is a friend of mine. J. D. Langdon

OFFICE OF THE

Scientific American,

MUNN & CO.,
 Editors and Proprietors.

New York, Nov 22 1881.

Mr. L. A. Edison,

My dear Sir:

The notes which
 Mr. Clarke says he forwarded
 have not arrived. Will you
 please give us as soon as
 possible, all the facts you can
 in regard to the Paris dynamo.
 We want to use the cut on our
 front page this week. The
 matter should be here by
 tomorrow noon

Very truly yours
 J. M. Hopkins

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COOPER UNION BUILDING,
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NEW YORK.

The Inventors' Institute,

COOPER UNION,

New York, Nov 25 1881

Friday Morning.

Mr. Brewster

My Dear Sir:-

If you will kindly

send me the scrap books of
regarding Mr. Edison, (promised
for last Wednesday,) I will
wait for them in the hall
below.

Respectfully

F. M. Walker
Editor Industrial News.

Maunabo
Nov. 25
Fuller Wadsworth
Went per mail
Serge Porto

Keep on - I will
not be in Sunday
Week in Sunday
this time. I will be
as usual.

OFFICE OF
THE RAILWAY AGE,
Grand Pacific Hotel Building.

Chicago, *See 1. 1881*
Thos. A. Edison
Menlo Park
N. J.

DEAR SIR: By to-day's mail we send you a copy of "The Railway Age," containing an illustration and brief description of your patent "*Electromagnetic Brake*"

These will also appear in our magazine, a copy of which will be sent you, the two publications giving them a circulation of over ten thousand among the railway men of this country and Canada.

This we do without cost to you, but at considerable expense to us. If you would like the electrotype plate for your own use, in printing circulars, envelopes, letter-heads, etc., we will mail it to you on receipt of \$1.20, or if you will subscribe for the weekly "Railway Age" at our regular price (\$4.00), we will furnish the electrotype free of charge; or, if you subscribe for the Magazine (price \$2.00), we will furnish that and the electrotype for \$2.50.

This will not cover cost to us, but we make the proposition thus liberal so that you cannot fail to see it to your interest to accept.

Your attention is also called to the enclosed printed slip with reference to the exhibition rooms maintained in connection with "The Railway Age." It will certainly be to your interest to be represented in these rooms by a neat model of your invention. They are the resort of railway men from every part of the country, who come to Chicago.

We herewith enclose blank order and addressed envelope for your convenience, and hope to hear from you.

Very truly yours,

THE RAILWAY AGE,
E. H. TALBOTT, Prest and M'gr.

Main



The College, Cheltenham.

5th Decr 81.

Dear Sir

I am about to publish an English translation of Florin's book "Les principales applications de l'Electricité." I do not know whether you know the book, but if you do, you will quite understand that it is impossible to give an impartial account of your inventions, discovered in the liberal translation of a book which takes such a prejudiced & one-sided view of the work of one of the most prominent pioneers of Electrical

Science.

I want to put before the readers of my Translation a complete & impartial account of your work & I should feel deeply grateful if you would help me in this. I do not know of any source - books or periodicals - where I could properly find an account of your discoveries, but feel sure that such an account must exist in printed form.

I trust you will not think I am asking too much if I address to you the respectful request that you will either send me the printed matter in

question or put me in the way of procuring it.

My book ought to be out as soon after it was so possible, & I shall consider an early reply a great favour. I shall have the honour of sending you a copy of the book as soon as it appears.

Excuse my troubling you &

Believe me
Dear Sir

Yours very sincerely
Julius Maier,
Ph. D.

Science Master

Chesham College -

St. J. Edison Esq.

[ATTACHMENT]

read this
letter but
write to
Julius Maier
that we are
looking up
data and for



D. VAN NOSTRAND.

Publisher, Importer and Bookseller,

28 Murray and 27 Warren Streets,

P. O. Box 1741.

New York,

Dec 8 187

Same Inculc Ex
65- Fifth Avenue
City

Dr Sir

The parties mentioned
in card enclosed are to
republick the article from
our magazine & I have
promised to loan them the
cuts / Do you know them?
Have they been to see you?

Yours truly
D. B. Speer's

THE ELECTRIC LIGHT.

—CANDL—

INVENTORS' ADVOCATE.

A Semi monthly Journal Published by the

Franco-American Publishing Company,

337 EIGHTH AVENUE, NEW YORK.

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NEW YORK.

L. de ABRISQUETA & CO., Managers.

DYER & WILBER,
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Z. F. WILBER,
No. 66 FIFTH AVENUE.

New York, _____ 188

Wednesday

Dear Mr. Trench

File

When we are not
using the Edison Scrap books
every day, I shall be very
glad to call for them
Thursday morning. I am
anxious for the ma-
terial for my article for
the Young Illustrative Novel
Please leave word with

Mr. Hannington.

Truly Yours,
Fuller-Walker and
Editor of Trist Novel

Musculanum

Dec-10

Walker

Copper Inset

[ATTACHMENT]

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The Inventors' Institute,

COOPER UNION,

New York, _____ 188

Samuel J. S. S. S.

Secretary

Dear Sir:

As I was not
able to procure from you the materials
needed for the sketch of Dr. Edison's
December issue of the Industrial Record, I
wrote a sketch of Dr. Robert H. - The
Bos family having kindly given me the
assistance I needed.

I now wish to print
the sketch of Dr. Edison, and his introduction, in
the January number, beginning the new
Volume. I shall be glad to make it
an Edison number. The Portland of 8 bells
want the scrap books you have told me
about, as soon as possible, for I must
begin at once, since this is the holiday
month, and 10 days of it have already gone.
If you will send me the books, with some
knowing men to call for them, you will
certainly oblige, Yours truly,
J. M. W. W.

Editor.

[ATTACHMENT]

Miscellaneous

Dec 10, 1917

Walker

Cooper Institute

STENOGRAPHIC LETTER.

47 FRANKLIN ST.,
BOSTON, DEC. 23, 1891.

MR. THOS. A. EDISON,
DEAR SIR,

I BEG TO CALL YOUR PARTICULAR
ATTENTION TO THE ENCLOSED CIRCULAR, WHICH EXPLAINING ITSELF, REQUIRES NO
FURTHER COMMENT FROM ME.

I HAVE SENT TO YOU, INSTEAD OF THE COMPANY, HOPING THAT YOU WILL
SEE THAT IT RECEIVES PROPER CONSIDERATION. IF WE CAN BE ASSURED THAT
THE PROPOSED JOURNAL WILL RECEIVE FITTING SUPPORT FROM PARTIES MOST IN-
TERESTED IN ITS WELFARE, NO PAINS WILL BE SPARED TO MAKE IT OF VALUE AND
AUTHORITY.

IT IS PROPOSED TO BEGIN AT ONCE, AN ILLUSTRATED SERIES OF AR-
TICLES ON THE AMERICAN SYSTEMS OF ELECTRIC-LIGHTING. CAN YOU FURNISH
A GOOD ELECTROTYPE-PORTRAIT OF YOURSELF, ALSO SOME GOOD CUTS ILLUSTRATING
YOUR SYSTEMS?

WE HOPE TO ISSUE THE FIRST NUMBERS IN JANUARY, AND AS THE TIME IS
SO SHORT FOR PREPARING, WE MUST USE SOME CUTS THAT ARE NOT WHOLLY NEW.
HOPING TO HEAR FROM YOU EARLY-AND TO KNOW YOUR OPINION OF THE ENTERPRISE,

I AM,

VERY TRULY YOURS,

G. Lowell Austin

13

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RE: [redacted] IS [redacted] THE [redacted] CHAIRMAN OF THE [redacted] FOR THE [redacted]

1007

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11-11-1961 TO THE ATTORNEY GENERAL, WASHINGTON, D.C. FROM THE ATTORNEY GENERAL, WASHINGTON, D.C.

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PGV-249⁸

Ms. A.10.6 v. 2, fol. 120r

Modeling the Fe^{2+} and Fe^{3+} fluxes

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СТЕРИДИЗУЮЩИЕ РЕАКЦИИ*

[ENCLOSURE]

PROSPECTUS OF A NEW JOURNAL.

"The Electric Light."

OF SPECIAL INTEREST TO ALL PARTIES TO WHOM THIS SHEET IS SENT.

Boston, Mass., December, 1881.

GENTLEMEN:—The very rapid and wonderful progress now being made in the field of electrical science merits the attention of other than purely scientific men. Within the past few months, we have seen the Electric Light, under the influence of fresh impulse, taking on a new importance, and leaping almost with a bound into popular favor; there have been improvements also in the line of frictional electricity, in the construction of hydro-electric batteries, and even in the form of thermo-electric batteries. It appears certain that, all the apparatus-producers of electricity, that will hereafter be invented will be comprised in the class either of chemical energy, heat, or of movement. It is evident, however, that there is still room for further improvement in each of these classes.

It is not strange that, in the excitement of the present, that portion of the public who are not engaged in actual study and invention, should manifest a lively interest in the achievements of those who are thus specially at work. It is one of the signs of mental advancement, of a livelier appreciation of science in general, and of a desire to adapt all its teachings to human needs, instead of confining them to the laboratory or the school-room. There is scarcely an intelligent man or woman of to-day, that does not in some way share the enthusiasm of the individual who is trying to unravel more of the mysteries of electricity; and rightly, since his success is their gain. But it seems a little strange that, in view of this interest, all the information to be gained by the public on this subject should be through the daily press, and that there is not even one journal *exclusively* devoted to it. In France, two very excellent periodicals are regularly issued, and in England one is meeting with great favor. Here, not one gives to the theme its undivided attention, notwithstanding that inventors are numerous and the public are wide-awake.

Realizing this deficiency and believing also that the enterprise, if properly conducted, would be supported, the undersigned has projected a journal, that shall in part, if not wholly, meet the demands of the time. It is proposed to issue it twice a month, in small quarto form, each number containing at least twenty pages, double column, and fully and even handsomely illustrated. The leading objects in view are, as follows:—

FIRST:—The publication of special articles on electrical research, written by eminent men, whose opinions are worth the knowing.

SECOND:—To furnish full and lucid descriptions of the great inventions of the day, whether emanating from American or foreign sources. These to be made more interesting by the aid of illustrations.

THIRD:—To furnish to inventors and others a medium of the interchange of thought and opinion—a field for notes and queries—a journal for friendly criticism.

FOURTH:—To give in brief and readable form all the electrical news current; to summarize the progress of electrical invention, as manifested in every quarter.

FIFTH:—To re-print, briefly, the claims of all inventors, to whom letters-patent shall be issued by the United States Government, subsequent to January 1, 1882. Outline illustrations will accompany most of these specifications.

FINALLY:—The scope of the journal will cover the following subdivisions of the subject:—The application of electricity for purposes of illumination—as industrial motive power,—for Railroad, for the transmission of audible speech, for Telegraphy, for Photography and Engraving, for Engineering, and for Mining purposes, for Military uses, and not but not for the treatment and cure of disease. The science will be treated in a popular vein, as much as possible, avoiding mere technology, and thus it is hoped to interest the teacher, the student, the inventor, the mechanical electrician, the physician, as well as every other intelligent man who profits by it.

The subscription price of the journal will probably not exceed \$2.00 a year.

The following is proposed as the title in full of the publication:—

THE ELECTRIC LIGHT.

A Popular Record of the Progress of Electrical Science and Invention.

Vol. I, No. 1.

BOSTON, JAN., 1882.

ISSUED Bi-WEEKLY.

Prior to initiating the enterprise, it has been deemed best to request of parties, to whom this prospectus is sent, any suggestions which they may be pleased to offer, and also to learn what assistance, by way of advertising patronage, may be expected from them. While it is firmly believed that such a journal will be sought by the reading public, still it cannot be denied that its financial success is a question of more or less uncertainty, unless it shall receive such aid as it is hoped it will merit. The cost of maintaining a special journal of this kind is not small, and its editors and publishers therefore look for generous support to those who are more particularly interested in the subject which it aims to foster.

The following rates of advertising have been fixed for the present:—

| | | | | | |
|--|--------|-------------|-------|---------------|-------|
| One Page, One Year, | \$180. | Six Months, | \$80. | Three Months, | \$45. |
| Half Page, | \$100. | " | \$50. | " | \$25. |
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| For Agate Line, Single Insertion, 20 Cents. | | | | | |
| Size of the Printed Page, 6 1/2 by 8 1/2 inches. | | | | | |

SPECIAL:—You now know something of the plan. Does it seem to merit your approval, your co-operation, your patronage? If it does, will you lend your aid and influence in its behalf? You can best determine to what extent. Any suggestions which you may be pleased to offer, will be greatly appreciated. Please address all communications relative to the subject to the undersigned.

Respectfully yours,

DR. G. LOWELL AUSTIN,

Care of Messrs. LEE & SHEPARD, Publishers.

47 Franklin Street, Boston, Mass.

1881. Edison, T.A. - Autograph and Photograph Requests (D-81-008) [not filmed]

This folder contains unsolicited correspondence requesting Edison's autograph or asking for photographs of him.

1881. Edison, T.A. - Bills and Receipts (D-81-009) [not filmed]

Most of the bills and receipts in this folder are for routine laboratory expenses. There are also bills and receipts for personal expenses. Additional bills and receipts for 1881 can be found in Invoice Books, Cat. 1162 and Cat. 1163 (not filmed).

1881. Edison, T.A. - Bills of Lading (D-81-010) [not filmed]

This folder contains bills of lading for the shipment of merchandise.

1881. Edison, T.A. - Book and Journal Orders (D-81-011)

This folder contains correspondence, bills, receipts, and other documents relating to the ordering of books and journals.

Approximately 70 percent of the documents have been filmed. The following categories of documents have not been filmed: advertisements, announcements of new publications, and other documents relating to items apparently not ordered; bills and receipts that contain no information about specific items ordered; other routine documents that merely duplicate the information in the correspondence.

Ans
file
info
Brooklyn

New York January 8. 1881.

Thomas A. Edison Esq.

Sir.

Captain Ericsson forwarded
to you on the 1st of October 1880 a
volume entitled "Contributions to the Centen-
nial Exhibition." You will oblige the
Captain by informing him if you have
received the said volume.

Yours respectfully.

S. W. Payton

Secretary.

Durk

AMERICAN JOURNAL OF SCIENCE. Hilman & Dana, complete set from commencement, 1840 to 1877, 134 vols., for sale cheap; also, a number of other scientific books, all at low prices. For particulars address B 110, Ledger Office, 418

Slip read many thanks
~~I have Sullivan~~ have
written the advertisement

Write B. 115-Ledger
ask what he has heard
Allimans Gul

June 10, 1902

THE WESTERN UNION TELEGRAPH COMPANY.

ALL MESSAGES TAKEN BY THIS COMPANY SUBJECT TO THE FOLLOWING TERMS:

To ensure against mistakes or delays, the sender of a message should order its REPLYING to be telegraphed back to the originating office. This is especially true in the case of a half-rate telegram, in addition. It is agreed between the sender of the following messages that the sender will be charged in addition, if any message is not received or delayed in the transmission or delivery, or otherwise, beyond the amount provided for handling the same, a further payment of the several cents per word for each day of delay, or for any message beyond any time for delivery arising from unavoidable interruption in the working of the lines, or for any reason for delay arising from the sender's fault. The sender makes the amount of the sender without liability, in forward pay messages over the lines of any office.

A. R. DRIWER, Secretary.

Persons by contract in advance, stating amount of hire, and payment of premium thereon at the following rates, in addition to the usual charge for removal insurance, viz.: one per cent. for any distance not exceeding 100 miles, and two per cent. for any greater distance. The amount of the charge is authorized to vary the foregoing.

Non-residence.—Persons who engage elsewhere in this Company will the same are presented Company's representatives, he sets for that purpose on the agent of the Company.

Persons will be delivered free within the established free delivery limits of the terminal office; delivery at a greater distance, a special charge will be made to cover the cost of such delivery.

The Company will not be liable for damages in any case where the claim is not presented in writing, within sixty days after sending the message.

NORVIN GREEN, President.

NORVIN GREEN, President

Send the following message, subject to the above terms, which are agreed to

To ~~Am. Ballenger~~ *Am. Ballenger*

42 Pi

Handwritten musical notation on a five-line staff, featuring a treble clef and several notes.

214.
Send American Good Light Journal
from 1870 eighteen hundred & seventy
and ^{two} ~~four~~ ^{one} ~~two~~ ^{three} ~~four~~ ^{five} ~~six~~ ^{seven} ~~eight~~ ^{nine} ~~ten~~ ^{eleven} ~~twelve~~ ^{thirteen} ~~fourteen~~ ^{fifteen} ~~sixteen~~ ^{seventeen} ~~eighteen~~ ^{nineteen} ~~twenty~~ ^{twenty one} ~~twenty two~~ ^{twenty three} ~~twenty four~~ ^{twenty five} ~~twenty six~~ ^{twenty seven} ~~twenty eight~~ ^{twenty nine} ~~thirty~~ ^{thirty one} ~~thirty two~~ ^{thirty three} ~~thirty four~~ ^{thirty five} ~~thirty six~~ ^{thirty seven} ~~thirty eight~~ ^{thirty nine} ~~forty~~ ^{forty one} ~~forty two~~ ^{forty three} ~~forty four~~ ^{forty five} ~~forty six~~ ^{forty seven} ~~forty eight~~ ^{forty nine} ~~fifty~~ ^{fifty one} ~~fifty two~~ ^{fifty three} ~~fifty four~~ ^{fifty five} ~~fifty six~~ ^{fifty seven} ~~fifty eight~~ ^{fifty nine} ~~sixty~~ ^{sixty one} ~~sixty two~~ ^{sixty three} ~~sixty four~~ ^{sixty five} ~~sixty six~~ ^{sixty seven} ~~sixty eight~~ ^{sixty nine} ~~seventy~~ ^{seventy one} ~~seventy two~~ ^{seventy three} ~~seventy four~~ ^{seventy five} ~~seventy six~~ ^{seventy seven} ~~seventy eight~~ ^{seventy nine} ~~eighty~~ ^{eighty one} ~~eighty two~~ ^{eighty three} ~~eighty four~~ ^{eighty five} ~~eighty six~~ ^{eighty seven} ~~eighty eight~~ ^{eighty nine} ~~ninety~~ ^{ninety one} ~~ninety two~~ ^{ninety three} ~~ninety four~~ ^{ninety five} ~~ninety six~~ ^{ninety seven} ~~ninety eight~~ ^{ninety nine} ~~one hundred~~ ^{one hundred one} ~~one hundred two~~ ^{one hundred three} ~~one hundred four~~ ^{one hundred five} ~~one hundred six~~ ^{one hundred seven} ~~one hundred eight~~ ^{one hundred nine} ~~one hundred ten~~ ^{one hundred eleven} ~~one hundred twelve~~ ^{one hundred thirteen} ~~one hundred fourteen~~ ^{one hundred fifteen} ~~one hundred sixteen~~ ^{one hundred seventeen} ~~one hundred eighteen~~ ^{one hundred nineteen} ~~one hundred twenty~~ ^{one hundred twenty one} ~~one hundred twenty two~~ ^{one hundred twenty three} ~~one hundred twenty four~~ ^{one hundred twenty five} ~~one hundred twenty six~~ ^{one hundred twenty seven} ~~one hundred twenty eight~~ ^{one hundred twenty nine} ~~one hundred thirty~~ ^{one hundred thirty one} ~~one hundred thirty two~~ ^{one hundred thirty three} ~~one hundred thirty four~~ ^{one hundred thirty five} ~~one hundred thirty six~~ ^{one hundred thirty seven} ~~one hundred thirty eight~~ ^{one hundred thirty nine} ~~one hundred forty~~ ^{one hundred forty one} ~~one hundred forty two~~ ^{one hundred forty three} ~~one hundred forty four~~ ^{one hundred forty five} ~~one hundred forty six~~ ^{one hundred forty seven} ~~one hundred forty eight~~ ^{one hundred forty nine} ~~one hundred fifty~~ ^{one hundred fifty one} ~~one hundred fifty two~~ ^{one hundred fifty three} ~~one hundred fifty four~~ ^{one hundred fifty five} ~~one hundred fifty six~~ ^{one hundred fifty seven} ~~one hundred fifty eight~~ ^{one hundred fifty nine} ~~one hundred sixty~~ ^{one hundred sixty one} ~~one hundred sixty two~~ ^{one hundred sixty three} ~~one hundred sixty four~~ ^{one hundred sixty five} ~~one hundred sixty six~~ ^{one hundred sixty seven} ~~one hundred sixty eight~~ ^{one hundred sixty nine} ~~one hundred seventy~~ ^{one hundred seventy one} ~~one hundred seventy two~~ ^{one hundred seventy three} ~~one hundred seventy four~~ ^{one hundred seventy five} ~~one hundred seventy six~~ ^{one hundred seventy seven} ~~one hundred seventy eight~~ ^{one hundred seventy nine} ~~one hundred eighty~~ ^{one hundred eighty one} ~~one hundred eighty two~~ ^{one hundred eighty three} ~~one hundred eighty four~~ ^{one hundred eighty five} ~~one hundred eighty six~~ ^{one hundred eighty seven} ~~one hundred eighty eight~~ ^{one hundred eighty nine} ~~one hundred ninety~~ ^{one hundred ninety one} ~~one hundred ninety two~~ ^{one hundred ninety three} ~~one hundred ninety four~~ ^{one hundred ninety five} ~~one hundred ninety six~~ ^{one hundred ninety seven} ~~one hundred ninety eight~~ ^{one hundred ninety nine} ~~two hundred~~ ^{two hundred one} ~~two hundred two~~ ^{two hundred three} ~~two hundred four~~ ^{two hundred five} ~~two hundred six~~ ^{two hundred seven} ~~two hundred eight~~ ^{two hundred nine} ~~two hundred ten~~ ^{two hundred eleven} ~~two hundred twelve~~ ^{two hundred thirteen} ~~two hundred fourteen~~ ^{two hundred fifteen} ~~two hundred sixteen~~ ^{two hundred seventeen} ~~two hundred eighteen~~ ^{two hundred nineteen} ~~two hundred twenty~~ ^{two hundred twenty one} ~~two hundred twenty two~~ ^{two hundred twenty three} ~~two hundred twenty four~~ ^{two hundred twenty five} ~~two hundred twenty six~~ ^{two hundred twenty seven} ~~two hundred twenty eight~~ ^{two hundred twenty nine} ~~two hundred thirty~~ ^{two hundred thirty one} ~~two hundred thirty two~~ ^{two hundred thirty three} ~~two hundred thirty four~~ ^{two hundred thirty five} ~~two hundred thirty six~~ ^{two hundred thirty seven} ~~two hundred thirty eight~~ ^{two hundred thirty nine} ~~two hundred forty~~ ^{two hundred forty one} ~~two hundred forty two~~ ^{two hundred forty three} ~~two hundred forty four~~ ^{two hundred forty five} ~~two hundred forty six~~ ^{two hundred forty seven} ~~two hundred forty eight~~ ^{two hundred forty nine} ~~two hundred fifty~~ ^{two hundred fifty one} ~~two hundred fifty two~~ ^{two hundred fifty three} ~~two hundred fifty four~~ ^{two hundred fifty five} ~~two hundred fifty six~~ ^{two hundred fifty seven} ~~two hundred fifty eight~~ ^{two hundred fifty nine} ~~two hundred sixty~~ ^{two hundred sixty one} ~~two hundred sixty two~~ ^{two hundred sixty three} ~~two hundred sixty four~~ ^{two hundred sixty five} ~~two hundred sixty six~~ ^{two hundred sixty seven} ~~two hundred sixty eight~~ ^{two hundred sixty nine} ~~two hundred seventy~~ ^{two hundred seventy one} ~~two hundred seventy two~~ ^{two hundred seventy three} ~~two hundred seventy four~~ ^{two hundred seventy five} ~~two hundred seventy six~~ ^{two hundred seventy seven} ~~two hundred seventy eight~~ ^{two hundred seventy nine} ~~two hundred eighty~~ ^{two hundred eighty one} ~~two hundred eighty two~~ ^{two hundred eighty three} ~~two hundred eighty four~~ ^{two hundred eighty five} ~~two hundred eighty six~~ ^{two hundred eighty seven} ~~two hundred eighty eight~~ ^{two hundred eighty nine} ~~two hundred ninety~~ ^{two hundred ninety one} ~~two hundred ninety two~~ ^{two hundred ninety three} ~~two hundred ninety four~~ ^{two hundred ninety five} ~~two hundred ninety six~~ ^{two hundred ninety seven} ~~two hundred ninety eight~~ ^{two hundred ninety nine} ~~three hundred~~ ^{three hundred one} ~~three hundred two~~ ^{three hundred three} ~~three hundred four~~ ^{three hundred five} ~~three hundred six~~ ^{three hundred seven} ~~three hundred eight~~ ^{three hundred nine} ~~three hundred ten~~ ^{three hundred eleven} ~~three hundred twelve~~ ^{three hundred thirteen} ~~three hundred fourteen~~ ^{three hundred fifteen} ~~three hundred sixteen~~ ^{three hundred seventeen} ~~three hundred eighteen~~ ^{three hundred nineteen} ~~three hundred twenty~~ ^{three hundred twenty one} ~~three hundred twenty two~~ ^{three hundred twenty three} ~~three hundred twenty four~~ ^{three hundred twenty five} ~~three hundred twenty six~~ ^{three hundred twenty seven} ~~three hundred twenty eight~~ ^{three hundred twenty nine} ~~three hundred thirty~~ ^{three hundred thirty one} ~~three hundred thirty two~~ ^{three hundred thirty three} ~~three hundred thirty four~~ ^{three hundred thirty five} ~~three hundred thirty six~~ ^{three hundred thirty seven} ~~three hundred thirty eight~~ ^{three hundred thirty nine} ~~three hundred forty~~ ^{three hundred forty one} ~~three hundred forty two~~ ^{three hundred forty three} ~~three hundred forty four~~ ^{three hundred forty five} ~~three hundred forty six~~ ^{three hundred forty seven} ~~three hundred forty eight~~ ^{three hundred forty nine} ~~three hundred fifty~~ ^{three hundred fifty one} ~~three hundred fifty two~~ ^{three hundred fifty three} ~~three hundred fifty four~~ ^{three hundred fifty five} ~~three hundred fifty six~~ ^{three hundred fifty seven} ~~three hundred fifty eight~~ ^{three hundred fifty nine} ~~three hundred sixty~~ ^{three hundred sixty one} ~~three hundred sixty two~~ ^{three hundred sixty three} ~~three hundred sixty four~~ ^{three hundred sixty five} ~~three hundred sixty six~~ ^{three hundred sixty seven} ~~three hundred sixty eight~~ ^{three hundred sixty nine} ~~three hundred seventy~~ ^{three hundred seventy one} ~~three hundred seventy two~~ ^{three hundred seventy three} ~~three hundred seventy four~~ ^{three hundred seventy five} ~~three hundred seventy six~~ ^{three hundred seventy seven} ~~three hundred seventy eight~~ ^{three hundred seventy nine} ~~three hundred eighty~~ ^{three hundred eighty one} ~~three hundred eighty two~~ ^{three hundred eighty three} ~~three hundred eighty four~~ ^{three hundred eighty five} ~~three hundred eighty six~~ ^{three hundred eighty seven} ~~three hundred eighty eight~~ ^{three hundred eighty nine} ~~three hundred ninety~~ ^{three hundred ninety one} ~~three hundred ninety two~~ ^{three hundred ninety three} ~~three hundred ninety four~~ ^{three hundred ninety five} ~~three hundred ninety six~~ ^{three hundred ninety seven} ~~three hundred ninety eight~~ ^{three hundred ninety nine} ~~four hundred~~ ^{four hundred one} ~~four hundred two~~ ^{four hundred three} ~~four hundred four~~ ^{four hundred five} ~~four hundred six~~ ^{four hundred seven} ~~four hundred eight~~ ^{four hundred nine} ~~four hundred ten~~ ^{four hundred eleven} ~~four hundred twelve~~ ^{four hundred thirteen} ~~four hundred fourteen~~ ^{four hundred fifteen} ~~four hundred sixteen~~ ^{four hundred seventeen} ~~four hundred eighteen~~ ^{four hundred nineteen} ~~four hundred twenty~~ ^{four hundred twenty one} ~~four hundred twenty two~~ ^{four hundred twenty three} ~~four hundred twenty four~~ ^{four hundred twenty five} ~~four hundred twenty six~~ ^{four hundred twenty seven} ~~four hundred twenty eight~~ ^{four hundred twenty nine} ~~four hundred thirty~~ ^{four hundred thirty one}

T. A. E. L.

READ THE NOTICE AND AGREEMENT AT THE TOP.

BERNARD QUARITCH, BOOKSELLER, CENTRAL AGENCY for the procuring of Rare Books.

Mr. Quaritch's stock consists of about 20,000 well selected WORKS;—Orders for many of the better class of Standard Literature can therefore be executed at once. Book-buyers are solicited to pay regular visits to his establishment as NEW PURCHASES are added daily. LIBRARIES PURCHASED at their maximum market value for Cash.

LONDON, 15 PICCADILLY, W.

17 Jan'y

1881

J. A. Edison Esq.

Dear Sir, I have renewed your subscription for
the "Electrician" & enclose invoice.

By this post I send you the catalogue of the
Scientific Publisher in Paris. You will find a
number of works desirable for you to secure. I shall
be glad to receive your order for those you desire.

Yours truly to have your further commissions

Yours truly

Yours obedient servant

Bernard Quaritch

[ENCLOSURE]

LONDON, 15 Piccadilly, W.

1881

J. A. Edison Esq.

Monk Park

17 January
New Jersey U.S.A.

to BERNARD QUARITCH.

My terms are Cash. Old Customers who for mutual convenience prefer to pay quarterly can do so. Payment to be then due at once. POST OFFICE ORDERS payable at PICCADILLY CIRCUS, W.

2074.

B. Quaritch

Subscription to Electrician 1881

& postages £ 1 1 8

£. s. d.

*You could spare the time to
send us a few lines*

Very respectfully Yours.

J. H. P. [Signature]

T. A. Edison &

English Mechanic & World of Science.

OFFICES, 31, TAVISTOCK STREET, COVENT GARDEN,

London, W.C.1. *Printed by* 1881

Dear Sir,

I beg to acknowledge the
receipt of your P.O. I am glad
to find you are one of our subscribers.

If the opportunity should
arise we should be very glad to find
you among our contributors.

The "English Mechanic" aims
to supply a common medium of
information and intercommunication
for and between scientific residents
all the world over.

In England here we have
the hearty co-operation of the foremost
workers; To America we are already
indebted greatly to such correspondents
as Mr. Bunsen, Mr. Barnard, and many
others. We should feel that further
honoured ^{scientific} ~~science~~ ^{generally} would
be greatly benefited & occasionally

6. E. Speer
Feb

Full Book & Papers

Mr Carman
Dear Sir -

I enclose in
parcel today a copy
of Field's analysis
of the Metropolitan
Gas Co's Report for
1879. Mr Edison
was anxious for
it some 2 or 3
weeks ago -

Yours truly
C. E. Speer

L. H. KELLER & CO.,

SUCCESSORS TO
G. A. HUGUENIN,

Importers,

No. 64 NASSAU STREET,

L. H. Keller,
Edward Hunter,
F. J. Bunn.

NEW YORK

Feb 10 1881.

My dear Sir,
Please send off.
Dear Sir.

Enclosed is Remittance
for \$2.50 one year Subscription
to the British Moral Journal.
We have mailed you this day a packet
of the Feb. & Mar. 27th of the Journal.
The March number you will receive
within the course of the month
from Mr. H. Everett 15. 177 Madison
Ave. the new Agent.

Yours truly
L. H. Keller

Society Tel Eng

May 10 1881

Miscellaneous

The Society of Telegraph Engineers,

16 BROAD STREET,

NEW YORK.

12th May 1881

J. A. Edison Esq
Menlo Park

N. J.
Dear Sir,

I beg to inform you
that your subscription to the
Society of Telegraph Engineers
for the present year viz \$5.00 is due.

I shall be glad to
receive the same at your earliest
convenience.

Yours truly

Geo E. Hard ^{per proc}

How Sec for N. A.

Mr R. Dos Passos
3 Broad Street

4 Painted Books
on Automata
Sept 5 1881

Ordered by
Insull

Roscleux's ~~Get~~
Galvanoplastic
Manipulations

Desquet

Francis Jehl
Sept 12th 1881



D. VAN NOSTRAND,
PUBLISHER, IMPORTER AND BOOKSELLER,
23 Murray and 27 Warren Streets,
P. O. Box 1771.
New York, *Sept 23/*

Mr. Saml Insull

My dear sir

*I send you
herewith a file
of the "Electrician"
for 1899. which
I borrowed & which
you can retain
for a week or
10 days.*

*Yours truly
D. D. Speer*



Miscellaneous
D. VAN NOSTRAND,

PUBLISHER, IMPORTER AND BOOKSELLER,

23 Murray and 27 Warren Streets,

P. O. Box 1716.

New York, *Oct 15 -* 1881

Mr Samuel Newell

*Wt for In the copy
of Sieman's works,
sent herewith is
a description of the
author's Steeling &c;
Call Mr Edison's
attention to it,*

*Did you bring
to his notice the
German works on
Glass making which
I sent you a few
days ago?*

*Yours truly
C. E. Speer*

E. & F. N. SPON,
PUBLISHERS AND IMPORTERS OF SCIENTIFIC BOOKS,
446 BROOME STREET,

And at
16 CHARING CROSS,
LONDON.

New York, Oct 29, 1881

J. A. Edison Esq
New York City

Dear Sir:-

We have just had offered to us for purchase a very fine collection of Books on Electricity, Magnetism and Electric Telegraph, in fact a superior one to the Ronalds Library of which we presume you know. Knowing the interest you take in these subjects we hasten to inform you, as such an opportunity may not occur again for many years, if Electricians continue to be as eager to get information as they are at present, again, we expect it will be a very easy

E. & F. N. SPON,
PUBLISHERS AND IMPORTERS OF SCIENTIFIC BOOKS,

446 BROOME STREET,

And at
16 CHANCERY CROSS,
LONDON.

New York, _____ 188

matter to find a customer by on
making the opportunity known.
We would therefore ask your
careful consideration and if the
result is favorable kindly let us
know as early as possible and
we will obtain full particulars
of price & books so that you may
decide whether to purchase or not.

Yours respectfully
E. & F. N. Spon
J. C. Hambro

would like list with
prices

Nachrichtige

MÜNCHEN, den 11. Oktober 1881.

Postchek
Edison
pure
 J. F. Edison, Engineer, Menlo Park-New York
 erhalten von R. OLDENBOURG in MÜNCHEN

NETTO.

| à com. | just | auf Verlangen vom: | | |
|--------|------|--|---|----|
| | | 1. Repertorium für Experimental-Physik, Band VII | | |
| | | Heft 1 pro Heft 1-12 complet | M | 24 |
| | | Rest für Repertorium, Band VII (Jahrg. 1881.) | v | 4 |
| | | | M | 28 |

(N° 46 série.) Numéro du mandat: *11*
 La somme de *28* francs, en tout, a été
 déposée, ce jour, par M. *Oldenbourg*
 pour être payée à M. *Edison*
 Représenté à la suite, sur la présente déclaration,
 le numéro du mandat.

Payable à l'ordre de
 28
 1881

1881 - Cont. 120

Oldenbourg
 den 11. März
 1882

Oldenbourg
 Pour acquit
 Verlagshaus Hamburg

E. & F. N. SPON,
PUBLISHERS AND IMPORTERS OF SCIENTIFIC BOOKS,

446 BROOME STREET,

And at
15 CHARING CROSS,
LONDON.

New York, *Nov 9 1881*

Mrs. A. Edison &

Fifth Avenue, City

Dear Sir:—

Your favor of Nov. 8th
is at hand. We expect a
full description of the collect-
ion of Books in about
a week, or less, and shall
then be able to give more
particulars. We have already
many inquiries respecting
this collection.

Yours faithfully,

E. & F. N. Spon

per Wm. Hamilton
E

Mr C. F. Edison the paper that
will be for you are

Scientific American
" Supplement
American Machinist

Weekly

~~Druggist Circular~~
American Journal of Science

Monthly

~~Practical Machinist~~
~~Mechanical Engineer~~
~~Engineering and Architecture~~

Scientific News
Popular Science Monthly

~~Chemical Technology~~
Journal of Chemistry

For Mrs Edison

~~American Family~~
Chimney Corner
Harpers Young People
American Queen

Weekly

~~Practical Machinist~~
Plant Leslie's Ills
Ruck

Harpers Weekly
Bazar
Homesly Magazine

~~Art American~~
Art American
Democrat Magazine

Monthly

~~Practical Machinist~~
~~Engineering and Architecture~~
~~Journal of Chemistry~~

Gursey Monthly
Popular "

~~Practical Machinist~~
~~Engineering and Architecture~~
Young Leslie's Journal

over

What to Wear } comes twice a year
Portfolio }

Newark Sunday Call

" Daily Advertiser

Mrs Van Cleave Koptich J. J.

~~At America Monthly~~
~~Dr. Fickler~~

~~Wm. C. C. C. C. C.~~

Nov 81

New York

Copied Applied.

Miscellaneous
THE RAILWAY AGE, Dec. 8.

GRAND PACIFIC HOTEL BUILDING,

Subscription Price \$3.00 a Year.

Advertisements Reasonable.

J. N. TALBOT, Manager.

Railway Age
No. 2 for 1881
Chicago, Ill.

W. J.
Thomas A. Edison Esq.,
Menlo Park, N. J.,

Sir:- In connection with
the enclosed printed letter,
we desire to call your
attention to the high char-
acter of these patent illus-
trations as they appear in
our papers & magazine. You
would find it impossible
to duplicate them for less
a much greater price than
that which we charge you.
Our arrangement with the
engravers enables us to
make you this special offer
which we think you can-
not fail to appreciate. We
direct your attention to the

matter in this special way
because we wish you to
thoroughly understand
the offer we make. Please
also bear in mind that
this electrotpe has already
earned you many times
its cost by its use in our
paper & magazine, in con-
nection with the descrip-
tion of your invention.

Trusting we may receive
your order

We are

Yours Very Truly
Railway Age Pub. Co.
Wm. J.

Dec 3rd, 1871

Mrs Edison

Dear Sir

I received your Order
in regard to the change in the
list of your papers which I
shall attend to once I am sorry
Mrs Edison does not receive her
papers regularly as I take pains
to send them every day as I receive
them I shall enquire at the post
Office and see if there is any trouble
there, as to your papers shall I
send them to your Office 65
Rijer Ave. or the same as I have
been sending them, you tell me
to write all communications to
the Office but did not say whether
to send your papers there or not.

Hoping if there is any thing
else that I can do for you
I remain respectfully
Geo. H. Sanders

Send
of Paper
One 1/2 sheet
One half sheet

Chas. H. H. H.
Dec. 3. 81

12/15/81, Dec. 12

(books) Dec 10th 1881

T Edison To C & Speers ⁷⁹ Dr

| | |
|----------------------------------|------------|
| Memories Royal | |
| Astronomical Socy | |
| 1822-80 - 45000 - | 250 00 |
| Socy of Arts Journal | 75 |
| 3 Vols, Supp Scientific American | |
| 1 - 3 - 1/2 mor | 12 00 |
| Working Drawings in Engineering | 20 00 |
| also | \$ 3.57 00 |

Paid C. & Speers

Paris Ex

LA LUMIERE ÉLECTRIQUE
JOURNAL UNIVERSEL D'ÉLECTRICITÉ
51, Rue Vivienne
PARIS

16th Jan 1881

Monsieur

J'ai m'etonne de ne
pas recevoir le petit
journal de 15 francs
que vous m'avez
reçu abonne
de cette comie. Il
est temps de regler
compte complet
Aidez, Monsieur
l'assurance de ma
profonde consideration

Monsieur Edison, New York

1881. Edison, T.A. - Clubs and Societies (D-81-012)

This folder contains correspondence, bills, receipts, and other documents relating to Edison's membership and activities in social clubs and professional societies. Also included are requests by clubs and societies for lectures by Edison and for exhibits of Edison's inventions.

All the documents have been filmed except for duplicate copies of correspondence and one illegible document.

SOCIÉTÉ DES ARTS
DE GENÈVE
A TATÉRIER

Genève, le 18. Avril 1887

Monsieur Thomas Alva Edison ingénieur
Rondel Park New Jersey

Monsieur

Dans sa séance du 8 courant, la Société libre
fondée à Genève en 1776 pour l'avancement des Arts, vous a
par un vote unanime, nommé l'un de ses Membres associés
honoraires.

Elle a voulu vous donner par ce titre un témoignage de
sa haute estime pour les brillantes inventions auxquelles vous avez
été conduit dans le domaine des arts industriels, en tirant des
principes généraux de la physique et de la mécanique, des appli-
cations nouvelles. Elle souhaite que vous l'acceptiez avec le
même plaisir qu'elle éprouve à vous le conférer.

Nous sommes heureux, Monsieur le honore' collègue, si vous
vouliez bien nous communiquer désormais les résultats de vos
travaux & nous vous prions d'agréer l'expression de notre
considération distinguée.

En nom de la Société des Arts:
Le Vice-Président,
Ez. Wasthauer, prof à l'Université
Le Secrétaire,
L. J. J. J. J.

(ci joint, un diplôme)

Miscellaneous

April 18. 81

Westmann

Dr. Noes

we have been
of membership
would you mind
translating & replying
to letter

THE
NEW YORK ELECTRICAL SOCIETY,
Incorporated

125 Broadway, New York.

F. W. JONES, President.

J. W. HOSKINS, Secretary.

New York *May 5*

188 /

Dear Sir:

Your name has been placed on the list of Charter members of the
New York Electrical Society.

Enclosed please find a copy of the Bylaws and a bill for fees
and dues.

Yours very truly

J. W. Hoskins
Secretary

J. A. Edison Esq.
Edison Electric Light Co.
5 Ave near 14 St.
N.Y.

[ENCLOSURE]

THE
New York Electrical Society.

Organized March 2, 1881.

CONSTITUTION

AND

BY-LAWS.

Adopted March 2, 1881.

MEETS FIRST AND THIRD THURSDAYS OF EACH MONTH.
IN COOPER UNION.

[ENCLOSURE]

OFFICERS.

President.
F. W. JONES.

Vice-Presidents.
First—GEO. B. SCOTT.
Second—P. H. VAN DER WEYDE.
Third—GERRITT SMITH.
Fourth—W. J. DEALY.
Fifth—GEO. A. HAMILTON.
Sixth—GEO. G. WARD.

Secretary.
J. W. MORELAND, 105 Broadway, New York.

Treasurer.
M. BRICK.

Circulate Committee.
F. W. JONES. GEO. B. SCOTT.
G. L. WILEY. E. C. COOKEY.
C. S. H. SMALL. E. A. LESLIE.
J. W. MORELAND.

CONSTITUTION.

ARTICLE I.

NAME.

This organization shall be known as
THE NEW YORK ELECTRICAL SOCIETY.

ARTICLE II.

PURPOSES.

The objects of this Society shall be: The advancement of electrical knowledge among its members; the establishment of a library, a reading-room and a laboratory, and the holding of periodical meetings, at which the reading of scientific papers and their discussion shall be the leading features.

ARTICLE III.

MEMBERSHIP.

SECTION 1. Any person desiring to aid in attaining the objects of this Society shall be eligible for membership.

SEC. 2. There shall be two classes of members—active and honorary.

ARTICLE IV.

OFFICERS.

SEC. 1. The officers of this Society shall be a President, six Vice-Presidents, a Secretary and a Treasurer.

SEC. 2. There shall be an Executive Committee, consisting of the President, the First Vice-President, the Secretary and four members.

SEC. 3. A Librarian may be appointed by the Executive Committee.

ARTICLE V.

AMENDMENTS.

Amendments to the Constitution or By-Laws shall be presented to the Executive Committee, who shall consider them and report, with any recommendations, at the second ensuing meeting of the Society, and it shall require a two-thirds vote at the next ensuing meeting for their adoption.

BY - LAWS.

ARTICLE I.

MEETINGS.

SECTION 1. The regular meetings of this Society shall be held on the first and third Thursdays of each month.

SEC. 2. The order of business shall be:

1. Reading of the record of the previous meeting and action thereon.
2. Proposals for membership.
3. Balloting for candidates.
4. Reports of committees.
5. Unfinished business.
6. Reception of communications.
7. New business.

SEC. 3. The Executive Committee may call special meetings of the Society at their discretion, at which none other than special business shall be considered.

SEC. 4. Fifteen (15) members shall constitute a quorum.

ARTICLE II.

MEMBERSHIP.

SEC. 1. Candidates for membership may be proposed at any regular meeting and balloted for at

the next, and shall be declared elected upon receiving a majority of the votes cast, but may be elected by a unanimous vote of the meeting at which they are proposed.

Sec. 2. Honorary members may be proposed at any regular meeting, and shall be declared elected upon receiving a unanimous vote.

Sec. 3. The initiation fee shall be one dollar (\$1), payable on the date of election, and the dues shall be three dollars (\$3) per year, payable quarterly, in advance.

Sec. 4. Honorary members shall be exempt from all fees and dues and be entitled to all the privileges of membership except voting.

Sec. 5. Any member failing to pay dues within two months of the date on which they fall due shall be deemed in bad standing and have no voice in the affairs of the Society, and be so notified by the Secretary, and shall forfeit membership, if dues are not paid, at the expiration of the third month, unless the Society orders otherwise.

ARTICLE III. ELECTIONS.

The election of officers and members of the Executive Committee shall be by ballot, and they shall serve for one year from the first Wednesday of March, or until their successors are chosen and qualified.

ARTICLE IV.

DUTIES OF OFFICERS.

Sec. 1. The President, and, in his absence, the Vice-Presidents, in regular succession, shall preside at all meetings, and, in case of their absence, a Chairman *pro tem.* shall be appointed.

Sec. 2. The Secretary shall have charge of all correspondence and records of the Society.

Sec. 3. The Treasurer shall have charge of the funds of the Society and shall pay such bills and orders as may be approved by the Executive Committee. He shall furnish such bonds as the Executive Committee may require.

Sec. 4. The Executive Committee shall have general charge of the affairs of the Society.

Sec. 5. The duties of the Librarian shall be prescribed by the Executive Committee.

ARTICLE V.

DONATIONS—PROPERTY—EXPENSES.

Sec. 1. The Secretary shall record all donations to the Society, whether of money or articles of value, together with the names of the donors.

Sec. 2. No books, documents, or other property of the Society, shall be removed from its rooms, except under such rules and regulations as the Executive Committee shall prescribe.

Sec. 2. No expense shall be incurred for the Society unless approved by three-fourths of the members present at a meeting, and no bills shall be paid unless certified to by the person authorized to contract the debt and audited by the Executive Committee.

ARTICLE VI.
MISCELLANEOUS.

Sec. 1. The regular order of business may be suspended upon a majority of the members present at a meeting voting in the affirmative.

Sec. 2. Accredited proxies will be accepted in the election of officers and in voting on amendments to the Constitution or By-Laws.

Sec. 3. Unless otherwise specified herein, the majority vote shall decide all questions brought before a meeting.

Sec. 4. The deliberations of the Society shall be governed by the provisions of "Cushing's Manual."

CHARTER MEMBERS.

Ades, Daniel M.
Alyea, E. O.
Ahson, E. M.
Ashhurst, J. A.
Ashley, J. M.
Atkins, G. W. E.

Bailey, J. L.
Baker, G. E.
Baker, W. H.
Baldwin, F. W.
Barberis, E. T.
Bates, D. H.
Beach, F. C.
Bentley, A.
Bogart, A. L.
Bogart, A. Livingston.
Bogart, S. S.
Breslin, Michael.
Brewer, A. H.
Brick, M.
Brooks, A. D.
Brown, A. S.
Brown, Robert.
Buckingham, G. L.
Bulter, G. F.
Bunnell, J. H.
Burghardt, H. D.
Byrne, Ignatius J.

Caldar, J. R.
Carter, H.
Cary, Clarence.
Cusny, P. J.
Curtis, P.
Chandler, A. B.
Chincock, C. E.
Christie, Joseph.
Cleveland, J. F.
Cliney, H. T.
Cochran, E. G.
Cockey, E. G.
Cole, F. W.
Collins, M. H.
Cocks, F. N.
Cord, J. T.
Cragg, D. H.
Cressman, A. T.
Cunningham, G. M.
Cunningham, P. W.
Davis, G. E.
Davis, M. M.
Dent, Wm. J.
Dillon, A. J.
Dingle, S. K.
Dingler, A. H.
Donnelly, J. F.

Dornan, M. J.
 Downer, A. B.
 Downer, D. R.
 Dwight, J. H.
 Eason, T. A.
 Edwards, Jos. L.
 Ellsworth, T. J.
 Emerick, J. H.
 English, J. W.
 Erwin, C. H.
 Farwell, G. D.
 Feary, P. T.
 Feary, Jabez.
 Fean, J. E.
 Fean, W. A.
 Field, Stephen D.
 Fitch, Clayton S.
 Fitch, Irving S.
 Flood, C.
 Foster, J. M.
 Fulton, C. M.
 Gage, C. S.
 Gallagher, Barclay.
 Gardiner, G. W.
 Gillett, H. W.
 Grady, D. B.
 Green, Marvin.
 Grinstead, A. T.
 Hadden, Wm.
 Haddock, L. R.
 Hambley, Jas.
 Hamilton, G. A.
 Hamilton, W. J.

Harmon, Jr., D.
 Haskins, C. D.
 Haufl, P. P.
 Hemmings, J. G.
 Hinchman, J. G.
 Hymas, G. E.
 Hoffman, E.
 Holbrook, G. E.
 Holmes, Wm.
 Hubbell, G. B.
 Hutchinson, C. F.
 Hyman, Thos. B.
 Jensen, F.
 Johnston, W. J.
 Jones, F. W.
 Jones, W. H.
 Keith, R. S.
 Keyser, Miss H. A.
 Kinsman, F. E.
 Knight, J. K.
 Knutson, A. A.
 Lartig, Thos.
 Lawson, O. E.
 Learned, A. F.
 Leslie, E. A.
 Le Rougetel, D.
 Lockwood, T. D.
 Lockwood, W. E.
 Longstreet, J. H.
 Mackintosh, Wm.
 Magowan, Wm. G.

Malloy, R. C.
 Marsh, F. D.
 Martin, A. F.
 McAnaney, D. W.
 McElroy, W. J.
 McDaniels, A.
 McKenzle, Jr., J.
 McLaren, J. W.
 McMahon, J. M.
 Meara, C. B.
 Morrishow, J.
 Morrison, H. P.
 Mitchell, D. B.
 Mix, J. R.
 Moffatt, J. M.
 Moreland, J. W.
 Morris, Geo.
 Morris, R. H.
 Mulgett, G. A.
 Mueller, Fred.
 Nash, S. L.
 Newton, G. A.
 Newton, O. K.
 Noonan, J. P.
 Ogden, H. P.
 Olson, William.
 Parns, W. G.
 Pike, Fredk.
 Pikelin, J. M.
 Phelps, Jr., George M.
 Philoney, J. W.
 Plun, D. M.

Pope, P. L.
 Pope, H. W.
 Pope, R. W.
 Pope, W. R.
 Prescott, Jr., G. B.
 Price, G. H.
 Randall, G. A.
 Raymond, Chas. Wm.
 Redding, M. H.
 Reid, J. D.
 Reynolds, J. P.
 Riley, R. D.
 Robson, H. P.
 Robinson, A. E.
 Rothemich, Henry.
 Salda, J. B.
 Sawyer, W. E.
 Schran, W. D.
 Schrott, S. S.
 Scott, Geo. H.
 Simpson, Wm. W.
 Shriver, O. S.
 Skidgen, W. A.
 Sherman, J. A.
 Simmonds, J.
 Sintonen, Jas. W.
 Sink, A. E.
 Smith, G. S. H.
 Smith, E. Willet.
 Smith, Gerritt.
 Spalding, Edmund.
 Smith, Wm. K.
 Snyder, Wm. F.

[ENCLOSURE]

13

| | |
|----------------------|------------------|
| Stanton, Geo. P. | Vansino, W. B. |
| Stewart, J. H. | Viles, F. T. |
| Stimpson, C. A. | Voyer, A. R. |
| Storko, H. L. | |
| Sullivan, M. | Wallace, H. |
| Tallavall, J. B. | Ward, Geo. G. |
| Tallavall, T. R. | Ward, H. H. |
| Taylor, I. M. | Warren, W. R. |
| Taylor, S. M. | Wagner, G. G. |
| Taylor, Theo. P. | Waycott, R. |
| Thompson, A. D. | Wraycott, W. B. |
| Thompson, A. R. | Widmeyer, Wm. P. |
| Thilston, J. G. | Wight, Wm. W. |
| Toole, J. F. | Wilcox, F. E. |
| Townsend, J. H. | Wiley, O. L. |
| Van der Woyde, P. H. | Wiley, J. R. |
| Van Every, J. B. | Wilson, Chas. H. |
| Van Horn, Jas. | Wright, A. R. |
| Van Nortwick, S. B. | Wright, J. E. |
| | Young, J. H. |

The sixth regular meeting of the New York
Electrical Society occurs at 8 pm Thursday,
May 19, 1881, in the Philosophical Lecture
Room of Cooper Union -

Prof P. H. Van der Weyde will read a
paper on Radiant Energy with illustrations
on May 17/81 J W Moreland Secy on

NEW YORK ELECTRICAL SOCIETY.

Address:
125 Broadway, New York.

F. W. Jones, President. J. W. Moreland, Secretary.

New York May 22 1881

Dear Sir-

Your favor of 15th enclosing chke for \$4 recd. Receipted bill enclosed.

I enclose a blank form which when filled out and returned will serve as a regular application for membership and will be acted on at the next meeting of the Society, which occurs Thursday evening June 2d.

Very truly yours
J W Moreland
Secretary.

Samuel Inall Kay.
T. A. Edison.

65 Fifth Ave
City

| |
|---|
| New York, Mar 2 1881 |
| Mrs. J. A. Edison |
| To NEW YORK ELECTRICAL SOCIETY, Dr. |
| To Initiation Fee and 12 month's Dues, \$ 4.00 |
| Received Payment, May 20 1881 |
| J W Moreland Secretary. |
| Please present this to Secretary for receipt when paid. |

Dear sir-

The seventh regular meeting of the New York Electrical Society will be held in the Philosophical Lecture Room of Cooper Union, on Thursday, June 2, 1881, at 8 P.M.



President F. W. Jones will read a paper on "Statistical Electricity," with illustrations, and Vice-President G. A. Hamilton will exhibit and explain the construction and operation of a Secondary Battery.

After this meeting the Society stands adjourned until October 6th.

J. W. Moreland
Secretary.

195 Broadway,
New York.

New York, October 1st, 1881.

The New York Electrical Society will resume its regular Meetings on Thursday, October 6th, 1881, at 8 p. m., in the parlors of the United States Hotel, City.

Mrs. Charles S. H. Small, Assistant Superintendent of the Gold and Stock Telegraph Company, will read and practically illustrate a paper on "Magnetism," after the disposition of routine business.

F. W. JONES,

President.

J. W. MORELAND,

Secretary.

Mr. & Mrs. David Williams
 request the pleasure of the company of
 Mr. Thos. A. Edison & Ladies
 at a reception tendered to the
 American Society of Mechanical Engineers,
 Thursday evening, November third 1881,
 from nine to twelve o'clock.
 35 East 17th Street

THE SOCIETY OF TELEGRAPH ENGINEERS.
 4, BROAD SANCTUARY, LONDON.

No. 167

Local Hon. Sec. and Treasurer for North America
 Received from Mr. Thos. A. Edison
 the Sum of Five Dollars being his Subscription to The Society of
 Telegraph Engineers for the year commencing the 1st of January, 1881, as follows:—

| | \$ | s. | d. |
|-------------------------|----|----|----|
| Member's Subscription - | 5 | | |
| Publishing Fund - | | | |
| Total \$ | 5 | | |

Geog. Ward
 Local Hon. Sec. and Treasurer
 The Society of Telegraph Engineers,

Address, 16 BROAD STREET,
 NEW YORK.

11th Nov '81

THE NEW YORK ELECTRICAL SOCIETY.

A special meeting will be held in Mott's Hall,
No. 64 1/2 Madison Avenue, at 8 P.M., Wednesday,
December 28, 1881.

Mr George Kipl Winter, Electrical Engineer,
of Madras, India, will favor the Society with illus-
trations and explanations of his novel system of
"Quadruplex Transmission," well known as the
"Muirhead Quadruplex."

J. M. Morland
Secretary.



My dear Sir: Yrs rec'd. I am
glad that you are proposing
to be on hand at the December
meeting of the Society with a
collection of facts.
I am particularly glad that
a paper may be expected from
you because I expect that
Mr. Boushke may bring in some-
thing and it will probably prove
an exceedingly interesting meeting.
Every engineer is anxious to learn
more about what is actually being
done and what may be expected
of this revolution in our methods
of distribution of light and espec-
ially of heat and of power.
Would it not be best to present the
paper yourself? —

P. H. Thurston

T. A. Edison, Esq.

1881. Edison, T.A. - Employment (D-81-013)

This folder contains correspondence from or about employees and prospective employees.

All letters that contain a significant response by Edison or that are from individuals associated with Edison have been filmed, as well as correspondence from individuals who were subsequently employed by Edison. Approximately one-third of the documents have been filmed.

Ans'd
2/2/81

Samuel D. Levy,
Attorney and Counsellor at Law,

320 & 322 Broadway,

[Rooms 27, 28 & 29.]

New York, March 21 1881.

Thos. A. Edison Esq,
Newark.

Pardon the intrusion. - My client
Messrs. Hendon of this city has placed
in my hands a claim against
one of your Employees' Chas. R.
Richards for an over coat made
for him by Mr. S. Smith of 220 1/2 St.

I have been requested
to write to you in the hope that
you would see that it is paid.

Trusting you will give
this matter your early attention,
hoping to receive a reply,
(thanking you in advance
for the kindness), I remain
Dear Sir with respect

Yours very truly
Samuel D. Levy

Moore Park 1881

April 10th

To Mr Edison

Dear Sir my
Husband Miles Andrews has
been very sick & under the
Dr care 4 weeks now & instead
of any money coming in it was
going out double now I am all
out of money and very much
in debt so I thought I would
write to You to ask You if
You would allow him half
pay for his time since he has
been sick if You can and will.

I shall be verry gratefull and
thankfull to You
Respectfully

Eliza Andrus

T. A. EDISON,
65 Fifth Avenue.

New York, August 18, 1881.

My dear Edison

Mr. Drull tells me that, in his giving you my message that I was "pretty low-down again in the world" & asking you whether you could give me anything to do, you replied that you wanted a number of labourers at \$1.25 a day & that, if that would suit he you would "take me on".

I am very much

Obliged to you.

I meant the message sent by Mr. Drull, though perhaps you did not think so. Can you see me!

Yours truly
Alexander Morton.

C/o Dickinson Bros.

43 Exchange Place,
New York.

THE EDISON ELECTRIC LIGHT CO.
35 FIFTH AVENUE.

RE - FRANK WINKELMANN

New York, May 20th 1888



J. A. Edison Esq.
Dear Sir/

Can I interest you
in a young man or rather
boy of seventeen years of age
that all folks say has a
wonderful or rather extraordinary
mechanical taste Mr Villards
of St. Et. duzer is the one
that can verify every thing
about him he has built more
electrical and mechanical
models &c than enough and
the folks want you to put
him to work Salary doesn't
amount to any thing as his folks
are rich Please give an answer
as I think it would be an

advantage to you as well
as himself to get a smart
young man of good education
to be a starter

Yours Obsequiously

J. C. Henderson

C. R. & N. Co.

146 North 12th Street

Philadelphia

Aug 24. 81

Chas. E. Smith
Henderson

20 NASSAU STREET,

NEW YORK,

Sep. 2, 1881

Prof. J. A. Edison
65 Fifth Ave

Dear Sir,

On the strength
of the enclosed note from
Mr. Henderson, I beg leave
to introduce herewith young
Mr. Frank Wardlaw,

It gives me pleasure to say
that you will find in him
a young man of fine talent
and of highly honorable
character. To speak of his
attainments would seem to
be presumptuous on my part,
as you will be much better
able to judge of them than
myself.

Yours very truly
Geo. A. Saper.

[ENCLOSURE]

[Re FRANK J. HENNINGSEN]

OREGON IMPROVEMENT COMPANY,

20 NASSAU STREET.

New York, *Sept. 1st* 1881

G. A. Lazen Esq

Dear Sir,

I have a note from Edison telling me to give that young man a note to him & let him call on him and he will see what he can do for him. he says that if he does not happen to be in to ask for his secretary Mr Inoull

Yours Truly

J. B. Henderson

61
OFFICE OF THE

Curry
Western Union Telegraph Company,

Cincinnati, *Oct 26 1881*

*J A Edison Esq
Menlo Park N J
Dear Sir,*

Sometime ago I was informed that you had requested F W Jones to find you an assistant and that I had been recommended to him for the place, whereupon I wrote to Mr Jones expressing a desire to obtain it. Mr Jones recently informed me that my letter to him had been referred to you, and that you had indicated an inclination to give me the position when you got your system of lighting in New York into operation. I write to you direct in order to prevent my application from being overlooked or forgotten. I hold myself in readiness to accept the position provided it offers a reasonable advance in salary and prospects over my present position with the Western Union Co in this place. I am a worker and a student and I think that I possess the

the qualifications in knowledge skill and experience
which would enable ~~her~~ to be of considerable
service to you.

Very Respectfully Yours
S M Dunlap.

McCall correspondence

Sept. 26, 81

Dunlap

~~Mississippi~~
New York
Sept 26th 81

Jackson
To Mr. T. A. Edison
Dear Sir

Since I
was with you on Saturday
last, a few ideas have
occurred to me which
perhaps may ^{be} acceptable
to you, and of some
advantage to both of
us. If you remember you
spoke of giving me some
employment in Paris, what
it was you wished me
to undertake I don't know
unless it was running a
Steam Engine which you
afterwards spoke about.
If I can serve you in any
way whatever in Paris I
shall be most happy.

to do so as I have at all previous time done what ever would forward your interest whether or not it has been to my own benefit. Now I was thinking if you have any speciality you wish to get manufactured that would incur an expenditure of a few hundred dollars I would try to establish a few tools for that purpose and devote my time solely to the furtherance of your success. It would not matter in what capacity so long as I secured an adequate remuneration for my services.

If you have any speciality of small work for your lamps or anything you need accurately made I would

make them by contract. On the other hand if you have any position you can give me independence of Mr. Dean whom I respect in some ways, but most positively decline to be subordinate to, feeling sure from past experience that I can serve you to a better advantage without any connection whatever.

I have as perhaps you know been very unfortunate hitherto in coming in contact with and been compelled (in some measure) to be subordinate to inferior persons so far as practicality was concerned, but I must for the future decline serving any other person other than my direct employer.

Our extended experience in
all branches of my business
make me too valuable ever
again to take any position
in America (unless that it
becomes absolutely necessary)
without its being where I can
be useful and my usefulness
be appreciated — I

shall call and see for
tomorrow evening as arranged
when I trust we may come
to some terms, I think you
have seen enough of me to
know my reliability and
my capacities, I have always
been steady, prompt and
ever ready to further the
interests of my employers
from the moment engaged
and adapted my self to ^{their} needs
whatever they were.

Yours very Resp^t
Geo Jackson

BE PARTICULAR TO ASK FOR TELEGRAMS AND LETTERS.

CONSULTED BY THE AMERICAN AND EUROPEAN PRESS.

«PALMER» «HOUSE»



The Finest Restaurant in the City connected with the House; also, a Business Men's Lunch Room and Cafe

Rooms, with Board, - \$3.00 to \$3.50 per Day.
Rooms, without Board, \$1.00 to \$2.00 per Day.
An extra charge for Families and Rooms with Bath.

SPECIAL NOTICE.—The charges at this Palatial Hotel are no higher than at other houses claiming to be first-class, that furnish much inferior accommodations.

POTTER PALMER & WILLIS HOWE, Proprietors.

Business House, Chicago. Oct 1st 1881.

To T. A. Edison Esq
Dear Sir

I have taken a trip here on a little pleasure, shall return about Thursday next by which time I will be glad of your consideration of employment with you in any capacity where my services will be most useful to you

Yours very respectfully
Geo Jackson

Miscellaneous

Baltimore Md. Oct 17, 89

Rice

Dear Sir:

I write to inquire whether you can furnish employment to a young man at your workshop at Minlo Park. I would like very much to get a situation where I can have an opportunity to improve myself in the practical study and investigation of all that applies to Electricity and Electrical and Mechanical instruments and experiments, and I know of no better place to apply at than yours, where, if I am correctly informed, there are constantly experiments in progress under your supervision. I am twenty years of

age, am of an inventive turn of mind, and have always manifested a desire for electrical and mechanical study, having learned telegraphing and worked at it some time.

I have also taken a course of lessons in drawing at the Maryland Institute here, and have been a subscriber of the Scientific American for nearly five years, during which time I have always taken the deepest interest in your inventions, illustrations of which have from time to time appeared in its columns.

I have lately invented several new improvements in electrical apparatus, but have not yet patented them, not having the

means to pay the expenses at present.

It would please me very much if you can find place for me in your establishment, and I will do all in my power to serve your interests, in whatever capacity I shall find myself in your employ.

Hoping to receive an early answer to this letter, I remain

Respectfully Yours,

Elias Oliver

145 S Broadway
Baltimore, Md.

To Thos. A. Edison Esq.
Menlo Park,
N.J.

[FROM SAMUEL INSULL]

Oct. 23/31.

Mr. E. E. Rice, Esq.

141 South Street, Baltimore, Md.

Dear Sir:--

Referring to your letter of the 17th, Mr. Edison requests me to say that he is not at present working at Manly Park, if however, you will send your photograph with your name and address on the back I will put it on file and when we get back to Manly Park Mr. Edison will see what he can do for you.

Yours truly,

Secretary.

Oct 31. 81

Ries

When will E. get to Wm's

Ans. 8.

Baltimore Md. Oct. 31 '81.

Saml. Insull, Esq.

Dear Sir:-

Your letter of the 25th inst. received. I herewith enclose my photograph as directed in your letter.

Will you please be kind enough to inform me when Mr. Edison intends to return to Menlo Park? By so doing you will greatly oblige

Yours Respectfully,

Elias C. Ries

#145 S. Broadway

Baltimore Md.

Peru being in Baltimore Md. on 7/24/44

[ENCLOSURE]



Mascaneros

Nov-9-

Rice

Can't do it
Balto. Nov. 9th 1881

Saml. Insull Esq.

Dear Sir:-

Your letter of yesterday to hand. I would like to ask you whether Mr. Edison cannot find employment for me at his New York establishment until such time as he should return to Menlo Park. If necessary, I can come to New York to see Mr. Edison personally, if he should desire it. I forgot to mention in my letter that the photograph I sent was taken from a negative which I had taken about a year ago.

Please call Mr. Edison's attention to this letter, as I would like to get a situation with him as soon as possible.

Hoping to receive an early
answer, I remain

Yours Truly

Elias C. Rice

145 S. B'way

Baltimore Md

Nov 14th

File

Mr. Edison

Dear Sir

I called this morning to see you, but failed to do so as there seems to be no likelihood of an engagement with you. May I ask a favour of giving me a recommendation in case a Gentleman should refer to you for my character, which in all probability will be done today or in a day or two. I may be engaged in the Sewing Machine business of which I have had considerable experience, you know I have always done my duty for you during the three or four years while in your employ at various times, but should you still desire my services I shall yet be glad to do my duty towards you, and will call on you again in a day or two, or you can address me to 71 Jerusalem St Brooklyn.

New York

November 19, 1881.

Mr. Thomas A. Edison:

Sir: I called repeatedly during this week with inclosed note from Prof. Spice, and failing to see you, see no other means of its reaching except by mail or messenger. I prefer seeing you personally as I know that letters are generally thrown aside and their contents forgotten. If you will be pleased to accede to request of Prof. Spice contained in inclosed, I shall endeavor to contain the good opinions therein expressed and also commend yours. Please address at your convenience.

Yours Respectfully,

John MacArthur

50. Clinton Place
N. Y. City

the man
and down
at present
of

✓ i m m 336. Halsey St.
e A Brooklyn, N.Y.
Nov. 13, 1888.

Dear Edison,

The bearer of this note (Mr. John Masterson) is an intimate friend of mine. He is at present looking out for some employment of a scientific nature. He is well read in natural science, and his ideas are sound. As an accurate observer he is perfectly reliable; and knows far more than his modesty allows him to make claim for. I believe that he could render you solid service in your laboratory, if you have room for an experimenter.

over

[ENCLOSURE]

~~Miscellaneous~~

Rev. J. S.

~~Masters~~

You could depend on one
thing, that any special
line laid out by you, would
be followed most carefully
and completely.

If you can manage
to do any thing for him
you will confer a favor
on Yours faithfully

Robert Spice.

Corning Nov 19th 1885
Mr Edison ES9

Dear Sir

I take the liberty to send you these few lines; as the electric light increase you may be glad to have more glass bulbs. I think a man had a little place of his own to blow them it will pay him.

Please let me know what you think about that.

yours respectfully

Lion Wazave

P.S. I write you these very confidently, I am a glass Blower making my living here in Corning Glass Works

Lamp Factory
Dec. 1981

Wayne
Went to make
Pulley

Wayne
Went to make
Pulley
12/12/81

local not
think
man would
be working
in the
field

Stamp factory
run by
Meyers
Henderson in
Mallory

OFFICE OF

Miscellaneous

Nov. 26-81

GRIGGS & Co.

THE SAINT PAUL GROCERS,

COR. SEVENTH AND JACKSON STREETS.

SOLE PUBLISHERS OF
"THE ST. PAUL GROCER,"
a weekly Price List and Weekly Journal
published in the interest of
every householder.

St. Paul, Nov 25 1881

A. Eddison.
New York.

Sir -

Understand.

Mr. A. M. Canby is in your
employ - he left St. Paul in
our debt as shown by the
enclosed bill -

If he is in your
employ be kind enough
to see that he gets it -
+ he may pay more attention
than as to thing & me sent
it to him.

Respectfully

L. G. G. & Co.

Miscellaneous

Baltimore Nov. 26th 1881

Res

Phoe. A. Eddison, Esq.
Dear Sir -

I intend making a visit to New
York in a day or two, and will
take the liberty of calling upon
you while there, in regard to
the subject I have already written
you of.

Remain, Very Truly Yours

Elias S. Rice

145 S. Broadway,

Baltimore.

His family have
asked me to write
you in his behalf
and if you can
without injustice
to others of prior
claims do any-
thing to advance him
a little, I shall be
wile his family
entire it a great
favor.

Hoping you
are quite well &
with kind remem-
brances from J. M. Edg.

Yours faithfully
J. E. Page

Middleborough
Nov 26
J. E. Page

The Poplars
Aberdeen Place
London N. C.
Nov 26 81

Dear W. E. Edison
I hope you will
pardon my bother-
ing you, but I
understand an
old pupil of mine
Mr. Tom Andrews
is working for you
and I hope doing
you good service.

NY Dec 8th 1881

J. A. Edison Esq

Dear Sir -

I write to know if you can
get me into your Electric
Light Co. - I understand the
system &c & am acquainted
with electrical matters generally -
you recollect me when you
were going to send me to Europe
& I went to Texas instead -
& you sent Lighthouse - I started
the Telephone Exchange throughout
Texas - getting local capital &
starting a local Company -
Griffin said as soon as the
light Co. began to get in
good shape he would see
what he could do for me
I am willing to accept any place
at first

yours Richd

O. S. Wiley

195 Broadway NY - W. U. Tel Co.

U. S.
Pennsylvania Railroad Co.

Dec 13th 1881

J. A. Edison

Dear Sir

I done about two hundred Dollars worth of work in Mauls Park up to the time Mr Johnson took charge & never received one penny for it when I would ask Mr Griffin he would say he would see the old man & get him sign a check for the amount but never done it & then after Mr Griffin left & Mr Carman took charge I mentiond it to him & his reply would be its all right you will get your money & this is the result if you can see Mr Griffin or Carman I will be satisfied with whatever amount they say or if not I will leave to your own generosity

Yours Resptz

John Hartman

New Brunswick N.J.
Dec 13th 1881

Singularly
This was the western
order of the new for
union me personally

show this to Mr. Edison
Wm. L. Edison
 Pennsylvania Railroad Co.

Dec 15th 1881

Dear Sir

From your remarks this morning I was led to believe that you were under the impression that I was paid by Western Union Company for doing your work at Menlo Park but such is not the case as I can confidentially say that I never had any orders from them to go there to do any work I went there sometimes by orders of Mr Bachelor Depton Carman & principally Mr Griffin therefore the responsibility rested on myself but I had arranged with Chief operator in New York in case any trouble should be on wires the New Section that he would send my orders to Menlo Park instead of New Brunswick & if necessary Mr Dicks at West office in New Brunswick will vouch for same

Yours Respt

John Hartens

New Brunswick N.J. Dec 15th 1881

1881. Edison, T.A. - Family (D-81-014)

This folder contains correspondence and other documents by and about Edison's family.

All the documents have been filmed.

Dr. H. C. Parks,
Quaker and Provision Broker,
No. 3, Nass Street

New York Jan 6th 1881

Thos. E. Erson, Esq.,
Mentor Park, N.J.
My Dear Sir:—

Mr. Thos. Holikam,
brother of Mrs. Erson (your
brother's wife) of Port Har-
mouth, is sick, here, in the
City, and should have the
attention of his relatives &
friends. Can you inform me
if your brother is down the
way occasionally? If he
should be, would like to
see him in behalf of Mr. H.,
who is now in comfortable
quarters, at my expense, tem-
porarily. Yours Truly,
R. H. Parks

764 Jan 6 51

copy sent

Jan 6 51

copy sent

Jan 6 51

Jan 6 51

Handwritten text, mostly illegible due to extreme fading and bleed-through from the reverse side of the page. Some words like "copy sent" and "Jan 6 51" are visible.

POYER, NELLIE.

Arnold, Ohio.

Feb 9th 1881

61 - Norwood Ave.

My dear Uncle:

Will you do a ~~favor~~ ^{favor} to make a small loan? If so I should like to borrow of you two hundred (2) dollars. I should appreciate the favor very much at this time as I hope I shall soon feel the want of it. Any more than I do now. I shall look upon it as an accommodative loan & will pay you interest for it. Would it be a help if you had it to spare. This is entirely private. Hoping you can all will, I remain

Your affectionate niece

Nellie Edw. Poyer

2 20 156
=

Miscellaneous

W. P. Edison

4th March 81

As to bal.
in Whipple's
hands

Park House May 4th 1881

Dear Bro

I wish you
would send order
on Frank Whipple for the
amt you left in his hands
March 1877 to pay you
bal which he holds I
think he has had the use
of it long enough don't you
the amt is \$1446.⁰⁰ here
is the list who will
you appropriate it in
Detroit ~~that~~ than we will
go at it in this large
City we are all well
Mama & Children
Come out this Summer &
don't forget to come yourself
if you can spare the time
W.P.E.

DANGER HOUSE.

BANGOR, MAINE.

This is one of the best houses in New England. It was designed by itself, thus avoiding the danger of the front being blown away by every storm from the front door. It has a brick foundation and is built every way so as to make it fire proof.

These drawings are sent to and from all trades and houses.

F. O. SEAL, Proprietor.

Bangor, Me., Aug 12th 1881

A. A. Edison Esq.

Fifth Ave. N.Y.

Uncle Alee

Dear Sir - I am down here looking over my Father's old home and people, &c. You will go home by the way of New York about the 28th Inst. if you will be at home about that time should like to stop and see you

Yours &c

M. A. Bailey Jr.

89 State St.

Bangor. Me.

Answered
2nd Nov 81
Gile away

Dear Bro

Portsmouth Oct 24th 1881

I had a talk with
John P Sanborn about RR
Matters he wanted to know
what I would sell for I told
him I did not care to sell then
I wanted to know what he
would tell for his he said I
could have his 7 Bonds and
Stocks in all about 94
Shares for 30 cts on a dollar
this is on a basis of \$16500.⁰⁰
for the entire road which
is much less than its worth
in my opinion things would
work more pleasant if they
could be bought out and got
out of the way what do you think
shall I except his offer WFE
as well

Andres B. Smith, Jr. 20
Drawing 25
Drawing 18

762-202

New York, Oct. 24, 1881.

My dear Mr. Edison.

To the Messrs. Graham, Dr.

For Board, English, French, and Latin Tuition

of Miss Marion

from April 28th to Feb. 1st 1882.

at \$100 per annum, \$50.00

- " Drawing, as per master's bill herewith,
- " Drawing, " " "
- " Italian, " " "
- " German, " " "
- " Spanish, " " "
- " Music, " " "
- " Use of Piano,
- " Laundry,
- " Books, as per account herewith,

\$ 53

Disbursements,

\$53.00

Received Payment,

F. A. M. M. Graham

Miscellaneous

Page 2 & 81

Graham
School

MISSES GRAHAM
SCHOOL FOR YOUNG LADIES
No. 93 FIFTH AVENUE
NEW YORK

The Course of Instruction includes the French, English, and Latin Languages; Geography, Astronomy, Chemistry, and the other Natural Sciences; Arithmetic, Algebra, and Geometry; History, Belles-Lettres, Moral Science, Education, Writing, and Art Class.

TERMS FOR THE COURSE.

| | |
|--|---|
| Senior Department, | Including Fuel and Stationery, \$225 per Annum. |
| Junior Department, | " " " " 180 " " |
| Primary Dept. | " " " " 150 " " |
| Day Boarders, | " " " " 500 " " |
| Use of Piano for Day scholars, | " " " " 12 " " |
| Instruction in French only, | " " " " 120 " " |

Terms for the Italian, Spanish, and German Languages, Music, Drawing, and other extra branches, regulated by those of the main body of pupils.

Terms for the Family, \$400 per annum, including the regular course of tuition, board, fuel, and stationery.

Each young lady to be provided with bed-finen, towels, napkins, silver fork and spoons, marked in full.

Use of Piano, \$15; Laundry, et Cetera.

School is in session from the 10th of September to the 10th of June. Pupils will be received at any intermediate period, the proportion only of the year from the time of engagement to enter being charged.

In case of the removal of a pupil before the expiration of the school year, payment for the full year will be required. No deduction made for absence.

Bills payable in advance, on the 10th of September and the 1st of February.

File

Miscellaneous

Nov. 20. 81

W. P. Edison

Port-Hamond Nov 20th 1881

Dear Bro

I received Insull's letter saying that you wanted to know how many shares it would take to Control the road it would take 276 we have 159 so would want to purchase 117 this could be got some at thirty 35 and 40^{cs} but the way to catch this fellows is to be ready when they are rich as they have shells I was offered Beards Sanborn and Cousins about three weeks ago at 30^{cs} they hold 94 shares but do not know that I could get it now I was afraid to say that I would take it until I heard from you Goulden holds 40 shares which can be got at 40 at any time or 35

but if I had old Beard and
Bantorn out of the way it would
be a big let up for me

The Grand Trunk have lost all the
land as far as the light house on
the shore and will connect at
once to build large Car works
also a large foundry and coke
works completed Employing at least
500 more employees and Fort
Maitland is wild over it so you
will see that St-Car works looks
like it might be a good thing
before long it should increase
the population of Maitland at
least 1500

Wanted Car work
in Port. Was there no
space for Car work
here? The fact is we
have no room for it
as only room for
R.R. could be here

WPE

No. 44.

HALF RATE MESSAGES.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company transmits all messages only on condition that the sender will have received a receipt from the Company for the message, and the sender will not hold the Company responsible for any error or delay in the transmission of the message.

This message is an URGENT MESSAGE and is delivered by special messenger at the expense of the sender.

A. T. BREWSTER, New York.

HARVARD UNIVERSITY, Cambridge, Mass.

Dated Feb 2nd 1887 at New York 1887

Received at WESTERN UNION BUILDING, Broadway and Dey Street.

W. P. Edison

READ THE NOTICE AT THE TOP.

65 Fifth ave ny
 can buy ninety four shares
 at thirty bal thirty five
 W. P. Edison

lopidy owls

will not do anythg
 at present

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

The Company TRANSMITS and DELIVERS messages only on conditions of absolute LIABILITY, which have been assumed in by the sender of the following messages.
It is the responsibility of the sender to ensure a message is received in the manner intended, and the Company will not hold itself liable for errors in transmission or delivery of messages.

This Special Day, CIPHER-KEYED messages are delivered by registered messenger under the conditions stated above.

A. N. BRYANT, Secy.

NORTH GARDEN, N.Y.

Dated 10th Huron Mich. 17 1881.

Received at 791 BROADWAY. Dec 17

To Edison

65 5 ave

READ THE NOTICE AT THE TOP.

Meek wife at new York
Central depot Sunday Nov

W P Edison

gpd go

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHEN ANY REPLY SHOULD BE SENT.

Direct Wires.

JEWELLERS
AND STATIONERS & ENGRAVERS.
 14 EAST 14TH STREET.
 NEW YORK. DEC 17 1881

Mr Edison.

N^Y Sir,

We have orders
 of reme for Mr E-
 they will be ready very
 soon (now 4 P.M.)
 Say who we shall deliver
 them to at your office
 so there can be no
 mistake.

Yours

Dunphy & Son

1881. Edison, T.A. - Honors and Awards (D-81-015)

This folder contains correspondence concerning the certificate awarded to Edison at the Sydney International Exposition of 1879. Documents relating to honorary memberships in social clubs and professional societies can be found in "Edison, T.A. - Clubs and Societies."

All the documents have been filmed.

Department of State
Washington February 8 1881.

Sir:

There has been received at this Department
a certificate awarded to
Professor Edison by the Sydney Interna-
tional Exhibition of 1879.

I will thank you to inform me what disposi-
tion you desire to have made of it. The Depart-
ment will deliver it to such agent as you may
suggest, or to Adams Express Co., addressed as you
may indicate, upon the return to the Department
of the enclosed receipt duly signed. When the same
is delivered in either way the responsibility of the
Department will terminate.

I am, Sir, Your obedient servant,

Chas. Rayson

Third Assistant Secretary.



23 South William Street
New York ²² April 1879

Professor Edison
New York
Harden

Please inform us what was
the exact nature of the exhibit for
which you received award at the
Sydney International Exhibition of
1879, also the class or degree of merit
attained - both, as specified on
your Certificate, which we suppose
has in this reached you from the
Department of State at Washington.

We desire this information for
use in connection with bronze medals
now being prepared in England, and
shall be much obliged by an im-
mediate reply -

Yours very truly
R. W. Cameron & Co
perale

1381. Edison, T.A. - Insurance (D-81-016) [not filmed]

This folder contains bills, receipts, routine correspondence, and other documents relating to the payment and renewal of Edison's insurance policies.

1881. Edison, T.A. - Payroll Receipts (D-81-017) [not filmed]

This folder contains payroll receipts for Menlo Park laboratory employees. The Edison National Historic Site also holds an extensive collection of employee time sheets for the period 1878-1931. The time sheets for 1878 have been filmed as a representative sample (see Thomas A. Edison Papers Microfilm Edition, Part I, 17:621-876).

1881. Edison, T.A. - Unsolicited Inquiries (D-81-018) [not filmed]

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

1881. Edison, T.A. - Visitors (D-81-019) [not filmed]

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

1881. Electric Light - General (D-81-020)

This folder contains correspondence, reports, and other documents relating to the commercial introduction of the electric light and to technical aspects of electric lighting and power, such as the design of lamps and generators and the materials to be used as filaments. Some of the documents concern competition with the Maxim electric light system. Related material about the application of electric power to mining can be found in D-81-038 (Mining - General).

All the documents have been filmed except for duplicate copies of selected documents.

Whitneyville, N.Y.
Established 1898
Office of Whitney & Jones Company
100 N. 3rd St., New York, N.Y.
J. Madison Esq.
Newark N.J.

Dear Sir -

If you wish to exhibit your Electric Light in Newark. I can offer you the use of 30 ft. at the Phoenix Works corner of Lawrence & Mechanics Sts. at the Phoenix Works where I have running a 100 H.P. Engine - It is near the Cor. of Broad & Market Sts. - My terms are reasonable. I refer you to Jas H. Bond Esq 791 Broad St who has the care of the property. - Sincerely
J. O. Stetson



COLLÈGE DE JUILLY

(Seine-et-Marne)

Janvier 1891.

Amable
by
W. J. J.

Monsieur

W. J. J.

Je désirais avoir quelques renseignements certains et précis sur la lampe électrique dont Vous étiez l'inventeur. On m'en a dit beaucoup de choses, mais rien de précis. Je vous en prie, m'en dire un peu plus, car j'en ai besoin pour mes travaux d'Europe. J'ai cru n'avoir rien de mieux à faire que de m'adresser directement à Vous.

Monsieur, j'espère que Vous voudrez bien me répondre.

Voici les questions. Sur les quelles je
voudrais être renseigné :

- 1° Quel est le nombre des lampes équivalentes
à 50 bougies
" 20 "
" 10 "
" 5 "

2° Le pouvoir éclairant d'une lampe peut-il
être réglé à volonté ?

3° Peut-on placer plusieurs lampes sur
un même circuit ?

4° Peut-on placer sur un même circuit
des lampes d'intensité différente ?

5° Quelle force motrice faudrait-il pour
alimenter :

10 lampes de 30 bougies
+ 50 " " 10 "
+ 20 " " 5 "

6° Quel serait le prix de ce lampes ?

7° Quel est le prix de la maintenance d'une
telle fourniture le courant pour les
lampes mentionnées ?

8° Devrait-on combiner d'avance une lampe
particelle avec ?

9° La lumière est-elle fine ?

10° Enfin, il fréquemment de ces installations ?

Maintenant, Monsieur, je Vous demande
la permission de Vous faire part, d'une
idée.

Une des objections que l'on fait contre
l'application à tout une ville de Péri-
sage électrique, c'est la grande variation
dans la quantité d'électricité employée,
avec l'impossibilité d'emmagasiner
l'excès d'électricité produit à ces moments
pour le reprendre on temps opportun,
comme cela se pratiquait pour le gaz.

Il est certain que les appareils générateurs
de courant électrique, devraient toujours
marcher même pour quelques lam-
pes seulement, pour maintenir ces appareils
en action, ce qui augmenterait singulièrement
le prix moyen de l'éclairage.

Il faut y avoir égard, d'autres objections contre
l'application de l'électricité à l'éclairage
publié, mais celle que je puis de légèreté
faire, ce sera double, et en même temps.

Rigoureusement parlant, et est faux de
dire qu'on ne peut pas consommer
sur l'électricité. Nos piles secondaires
ne sont autre chose que des réservoirs

d'électricité où nous divisons l'éner-
gie électrique pour la reproduire con-
sistamment au moment voulu.

Il est facile d'imaginer la disposition
nécessaire pour appliquer l'énergie de
courant produit à son instant donné,
à la charge de piles secondaires, et
pour faire servir ces piles secondaires

au moment opposé, à tout autre qu'il
en résulte aucun effet ^{particulier} sur l'éclairage.

Une seule de faible consommation on
changerait les piles, par exemple, ayant
un seul de courant; une seule de grande
consommation les piles secondaires.

Mécanisme aussi aux génératrices.
On pourrait même pendant le service



COLLÈGE DE JUILLY

(Seine-et-Marne)

de consommation très faible ou
complètement la génératrice.

On voit que de cette manière on ar-
rêterait pour un certain temps
seulement la marche des machines,
ne servirait pas à l'éclairage; les piles
secondaires y suppléeraient.

Mais, Monsieur, que fais-je !
Voulez que moi-même, ayant
à faire fait la première par deux
les heures, je parle à celui, qui avec
les Bell, les Hupar et d'autres
de la Compagnie, marche à l'été
de l'année des travaux.

Maintenant que j'y pense, je
n'ai pas pour consommation

Une idée qui pout de M. arriver à
peut-être même sur le moyen
d'établir sur le même terrain des complexes
d'entente Paris.

Je vous prie, Monsieur, d'agréer
avec mes filiales et amis les plus sincères
des vos nombreux d'envies, le
sentiment de mon profond respect

A. Weischauffel

prof de Physique au Collège
de Guilly

(Loire-et-Maine) France

EXECUTIVE OFFICES

→*ALBEMARLE FERTILIZER COMPANY,*←

33 CHURCH STREET,

ALBERT SPEYERS, Pres't,
EDWIN M. FOX, SECRETARY,
FRANCIS W. JACOBS, TREAS.

New York, January 6, 1881

My dear Edison,

A friend of mine who has
one of the best houses on
Fifth Avenue is very anxious
to get the Edison Electric light
there and he requested me to
ascertain what steps would
have to be taken for that
purpose.

Will you please inform
me by return mail about when
it could be done. The cost is
no object with him. The invention
that would receive large attention
at the hands of the City press
Truly Yours
Edwin M. Fox

School of Mines, Columbia College,

CORNER 49TH STREET & 4TH AVENUE,

New York, Jan. 8th 1881.

Dear Sir; *John E. M.*

Yours of 3rd inst. received
offering me lamps for exhibition at
College. In reply I would state that
I should be glad to obtain them;
having a Wallace machine with
engine to give 1200 candles with
Browning's regulator, I believe I
can arrange to exhibit yours very
satisfactorily. I would suggest
also, have you ever tried the effect
of allowing your lamps to remain for
3 days in connection with the air
pump before sealing them finally?
I find that there is such a large
amount of air clinging to the sides
of the glass which even a small

pressure of the $\frac{1}{100,000}$ inch does
not remove within 3 days.

Radiometers have not worked
very long when sealed immediately.

With many thanks
for your kindness, I will call
one day next week.

Yours
M. C. Schlegel
Asst. in Physics

Electricity
Museum

Jan 8 - 1881
M. C. Schlegel

Tuesday

Alfred Davis
Jan 8/81

Miscellaneous
Letters
h

Westminster Hotel
New York Jan 8/81

F. A. Edison Esq.
West Park N.Y.

Dear Sir

I beg to enclose a
letter of introduction from
Mr. J. D. Robinson & would
esteem it a favour if you
would allow me to visit
you on Monday evening
next if quite convenient
to you as I wait for the
land next week.

May I request the

Excuse of a reply, waiting
for most suitable hour
& should I should not
omit you convenience per-
haps you will be good
enough to make another
appointment.

Yours faithfully
Alfred Davis

P.S. If this should not
reach you before Monday
morning may I ask you
to send me a telegram
for expenses of which to be
collected here.

[ENCLOSURE]

J. P. ROBINSON, President,
WM. A. KING, JR. Gen'l Manager.

*The International Pavement Co.,
Office 71 Broadway, Room 100,
New York, N.Y. 8th 1881*

Prof. T. A. Edison -

My dear Sir -

*My friend Mr
Hepner Davis of London England, has
expressed a desire to visit you, before
his departure for Europe (which occurs
during this month) and I have told him
that nothing will be more pleasant to you, than
to meet one so highly interested, and appreciative
as you will find him to be & in fact a cheery
new year to you all & mine*

*Very truly
J. P. Robinson*

EXECUTIVE OFFICES

ALBEMARLE FERTILIZER COMPANY

33 ORDMAN STREET

ALBERT SPEYERS, Pres't.
EDWIN M. FOX, SECRETARY.
FRANCIS W. JACOBS, TREAS.

New York, Jan'y 10 1881

My dear Edison:

The party who wants the light is Silas W. Stetwell Jr. Vice Pres. of this Company. He wants it for "Barnmoor", 5th Ave Cor. 36th St. "Barnmoor" as you probably know is quite a select establishment and has for a constituency some of Gotham's best people.

Mr. Stetwell was casually conversing with me about Electric lights and he mentioned that they were going to have the incandescent light - in fact I quickly put a damper on that and he now wants the Edison

In your letter you don't say

the Negroes people that I learned that them
know when you were ready. They also want
the light and I can get all the newspaper
offices in the City to order it.

Why not let me do that? It would stand
five great edicts to the system and prove it
a net blanket for lawyer, Maxam and the
other carpers who are as true to race and our
down after you get started, as mushrooms are after a
rain storm. The press having before their eyes the
practices his insupportable words of the superiority of your
light, would gently sit down on all those.
The movement I need not come from you. It comes from
with good grace from me as an old newspaper man. What does your
you believe every day. H. H. (over)

anything about what terms
you would put in the light.

I refer to the tenure or how
it should be arranged whether
under royalty or how.

Please send your draft. or
Engineer in tomorrow or the
next day, tomorrow if possible
and let him call on Elias M.
Stowell Jr. Counselor at Law
Equitable Building. or if he
will call on me I will introduce
him to Mr. Stowell who will
take him to Barmon & have
the estimates etc made.

A more desirable place
for the early introduction
of the light could hardly
be had.

By the way I promised

P.D.

I'm a firm believer in the Edison light
and as a proof of my belief I have four or
five thousand dollars I stand ready to
invest in it if you know of any shares
lying around at a fair rate. If you know of any
please give me the word

E.M.T.

THE EDISON ELECTRIC LAMP CO.,

215 N. 4th St.,
Chicago, Ill.
Franklin R. Upson,
Superintendent.

Menlo Park, N. J., 1883

Alfred Leavies
Westminster Hotel
N.Y.

Can show you partial
lighting to morrow night
T A Edison

July 12-81

My Jan 12/81
 Edm Fox
 Asiatic E.L. a Jan 19
 red letter book

EXECUTIVE OFFICES

ALBEMARLE FERTILIZER COMPANY, INC.

33 CHURCH STREET,

ALBERT SPEYERS, Pres't.
 EDWIN M. FOX, Secretary.
 FRANCIS W. JACOBS, Treas.

New York, Jan 12, 1881

My dear ~~Edm~~ ^{Fox} ~~Edson~~, a day ago for
 the Asiatic matter

Yours of the 11th at
 hand. I was under the
 impression that your Company
 would put in light and
 generators but inasmuch as
 that is not the plan I will
 see my friend Stilwells and
 explain to him and let
 you know.

I happened to meet
 Mr. Draper on Wall st this
 morning. What have you
 been doing to him?

He is 'Maxim' out and out

and says that you have nothing
to patient. He will however
need stronger arguments
than he has to convince
me that such is the case.

When are you going
to be ready to have this
advised interview with
my friend Small and
his associate Capitalists
with reference to the
Anatic matter. You
will remember that you
promised when the light
was ready to have a
final interview. They are
still waiting and ready.

Dozens of times they
have spoken to me on

the subject but I
have always held
them back because
you were not ready.

Will you fix a day?
There are no better people
in New York

Please let me hear
from you by return mail

Truly yours

Edwin M. Fox

J. Kircher
Jan 6/81

E. L. Weston

Bring your lamp
over and let us

try it

John E. New York Jan 6/81
C. Edison Esq

Dear Sir

I have constructed a lamp for electric
lighting with burning without intermission
for one or one hundred hours and is
selfregulating i.e. the points of coal
are pushed forward by themselves and
almost no wear out by use is possible.

The lamp is very plain and extraor-
dinary cheap and is adapted for the use
on street and for home; the lamp ac-
complishes what neither in this country
nor in Europe could be accomplished
as yet.

I would not fail to mention that I
am a disciple of Edison and have
been occupied in electric work at
Paris, Berlin & Rome.

In case you might be willing
to take advantage of my invention
please let me know and I would be

thankful to learn ~~in~~ what
such stamp might be worth for
you

Hoping to hear from you soon

I am

your very respectfully

S. Minsterlicher

No. 62. St. 5th Ave New York.

MEMORANDUM.

Dec 22

FROM

The Buckeye Engine Company,

EXPERTS IN STEAM ENGINEERING,

EASTERN AGENCY,

Exclusively for the Sale of the Buckeye Automatic Cut-off Engines, East of the
Meridian of Washington, D. C.

Room 43, Coal and Iron Exchange,

COR. COURTLANDT AND CHURCH STS.

WM. LEE CHURCH, Manager,
GEO. A. BARNARD,

NEW YORK.

New York, *Jan 17* 1881

To *Thos. C. Edison*

Manhattan

Dear Sir:

*the whole you some days ago in
reference to lighting our Hartford Shops on
your system. We also have such arrange-
ments that we could under take light the en-
tire city in the future. Should be glad to
hear from you on the question of the shop
privilege.*

Yrs

Wm Lee Church
*We should have to call to
you personally in regard to Hartford lighting.*

MEMORANDUM

FABRI & CHAUNCEY,

243 SOUTH STREET

To Mr. Thomas A. Edison

NEW YORK Jan'y 19 1887

Dear Sir

We take pleasure
in introducing to you
Mr. Henry Margery,
an engineer who has
recently arrived from
Paris, A. P., and who
is desirous of becoming
acquainted with
your system of electric
lighting. We commend

him to your kind
attention & remain

Truly yrs
Jabbot Chauncey

MARTIN DILLIST & CO.
ESTABLISHED 1851
70 EXCHANGE PLACE,
BALTIMORE.

Jan 27 1881

BALTIMORE, JANUARY 27 20TH, 1881.

MR THOMAS A. EDISON,

MENLO PARK, N. J.

DEAR SIR ;

I WROTE TO YOU YESTERDAY ABOUT THE VISIT OF THE 150
OHIO EDITORS TO BALTIMORE, AND I HAVE HAD AN INVITATION LITHOGRAPHED
WHICH I WILL SEND TO EACH ONE OF THEM TONIGHT. I ENCLOSE A COPY
OF IT, AND TRUST THAT IT WILL MEET WITH YOUR APPROVAL.

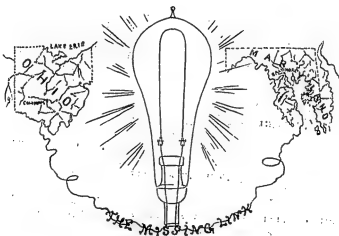
I HOPE TO RECEIVE FROM YOU TOMORROW THE LAMPS, WHICH I YESTERDAY
WROTE FOR, AS THEY WILL ADD MUCH TO THE INTEREST OF OUR LITTLE SHOW.

I REMAIN,

DEAR SIR,

YOURS FAITHFULLY,

Oliver Steele



By permission of Mr Thomas A. Edison - Menlo Park - there will be burning at our office No 70 Exchange place, at 5-o'clock this afternoon; the Edison Electric lamp, for household use.

We shall be happy to have you call at above hour and inspect this "light of the future".

Respectfully

Martin Gillet

Baltimore Aug 21st 81.

Office & Salesrooms,
No. 101 FULTON STREET,
New York.

Salesroom,
419 & 421 WATER STREET,
New York.

Branch Office,
45 NICHOLAN AVE. 179 LIBERTY STREET,
Chicago, Ill. Pittsburgh, Pa.

HINDS, KETCHAM & CO.,
LABELS AND SHOW CARDS,

New York, Jan. 21 1884.
Mr. Edison
Sir: *OK file*

The engine for
the dynamo is in position
ready for business and
as we have not introduced
gas into the building we are
without light until it is in
motion. Should it not be well
to put on the lamps while we
are waiting for the machine?

We send you some
samples of colors by this
mail as requested.

Respectfully yours
Hinds Ketcham

Government & I think you will receive
encouragement instead of objections,
in the laying of wires.

Could I hire a small dynamo
machine that would run say 10
lights in our office, I can get
the power just round the corner
about 200 feet from our office.

Wishing you every success

I am yours faithfully
Oliver A. Gill

I am very much pleased with your
success in working the lamps.
We shall soon have a number of small
Dynamos and then I shall be able
to supply you with one.

238
Baltimore No. 100
South Hill
August 31

OREGON IMPROVEMENT COMPANY,

20 NASSAU STREET,

NEW YORK. *Jan 23* 1887

J. H. Colson Esq
Minto Park

Dear Sir

I beg to acknowledge the receipt
of your kind present through C. Goddard Esq
and trust that I at some future date may
be able to show my appreciation of the same.

Now in regard to the light for the "Columbia"
when will you be able to send them and what
instructions do you want to give me about them
or that I can reimpart them to the parties that
will put them in place. in sending them please
send them by express C.O.D and address them
Electric Lamps "J. H. Columbia" 210 Battery Street
San Francisco Cal.

W. H. H.

Yours Respectfully

J. C. Anderson

E. L. ...

NY Jan 23, '51

J. R. Henderson

Turned over to
upton Jan 26

WOL 1/23.81

My dear

The "Bureau statistics" deal
only with Imports & Exports - can get you
the late numbers of those if you want them!

The census on Industries was necessary
for a long while, will make large quarto
book of 800 or 1000 pages, may not be
out for a year yet - yours

W. O. L.

what I am after is
the tabular employed
by district, Govt or
in Municipalities.

W. O. L.

EXECUTIVE OFFICES

Albion Electric Company
88 CEDAR STREET,

ALBERT SPEYERS,
President.

EDWIN M. FOX,
Secretary.

FRANCIS W. JACOBS,
Treasurer.

New York, Jan'y 25 1888

My dear Edison,

Would it be convenient for you to see my friend John D. Townsend, the lamp and myself on Friday evening next at 11 o'clock? We have some thing of importance to talk with you about concerning the Electric light for New York.

In yesterday's Tribune, if you noticed was a long account of Mr. Townsend's "gutter conductor" by which the tearing up of the street for laying the wires is entirely avoided. The invention is one of considerable

importance in the movement
of your Company to get
the right from the "City Father"
to lay the wires. The terms
they seem to dictate to your
Company for the franchise
are simply ~~unreasonable~~ ^{preposterous}. I think
I can on Friday show you
the way clear, to get the
franchise.

Please write or telegraph me
on receipt of this if you
can see me Friday night.

Truly yours

Edwin M. Fox
Confidential

going to the temple for me
the bank will certainly say you not long since Sunday

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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A. H. BEEBECK, Secy.

NORVIN GREENE, President.

Dated New York, Jan 26 1881

Received at Wash

To J. D. Edison

READ THE NOTICE AT THE TOP.

Machine is in
building Reed man
to set up.

Amos Kilum Co.

Ypaid

229 Broadway, New York
January 27th 1881.

Mr. Thomas Edison
Hento Park
New Jersey.

Dear Sir;

I have a client, a practical chemist, who possesses all the requisite apparatus for properly producing vegetable carbon points.

He claims to have discovered a source for the production of vegetable carbon of a very durable nature, to be used in a vacuum lamp.

If you are still looking for such an article and will give the shape and dimension you prefer to use, he will be pleased to furnish you samples for experimental purposes.

Yours respectfully
Wm. Russell
att'y at law

W. Russell
of January 27 81
Wm. Russell
Feb 2 81

12 figures of 18
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

Can't find it
On the 10th of
the 10th of an inch square. The
have thickened ends for clamping
which be happy to try
any thing sent me

~~14528~~ 3
101 New York Jan 27/11

James Kline
- Meulo Park

Machine has
arrived send
man to put it
up and bring
Lamps

Hinds Ketchum & Co
1502-104 Fulton St

YHT DHA , REMIND HT OT OTIVIM MA I , THAT DER YHA TUGHTIN OO OT MHT
MARTIN PILLET & Co
ESTABLISHED THAT THE CERE HAD I TAHT ATAO 3MDS UOY MORT TEO OT 2M OCHAE 2VAM
TO EXCHANGE PLACE,
BALTIMORE,
THAT HAD 3E MHT OT UOY KBAABT MORS OAHVARTITIMHTL TEOED YH OHA

HAD I BAHNHONHABETEDTODOTHTI TO OHA , HEPHRE KIMHT YAM UOY TAHT BTOAE
MENLO PARK,
UOY MORT DEIM WET A DVAM OT 3DOAMTOD 3D 3D UOUD TI OHA , DOUGODATHI
DEAR SIR;

I AM IN BERTH OF DOUBBIOIRDIRTHA OAHVARTITIMHTL TEOED YH OHA
TO HEAR FROM YOU, BUT I HAVE NOT HAD TIME TO DO SO, AT 10 O'CLOCK
THE ZINC BATTERY WE HAVE SCARED THE COMPANY SO BAD THAT THE
STOCK AS TUMBLED FROM 74 TO 69 , AND ALTHOUGH WE NO LONGER HAVE
THE LIGHTS BURNING , WE HAVE VISITORS IN EVERY DAY ENSURING ABOUT
THE LIGHT SO , I HAD HEARD SO MUCH FROM THE GAS COMPANIES (THE
OFFICERS OF WHICH ARE PERSONAL FRIENDS) AS TO THE BREAKING OF YOUR
LAMPS , THAT I MADE ONE OF THEM A BET THAT ONE OF YOUR LAMPS WOULD
STAND ALL THE CURRENT HE COULD PUT THROUGH IT , MY FRIEND SELECTED
ONE OF THE LAMPS , AND WE TOOK IT TO THE " DAILY NEWS OFFICE " WHERE THE
THEY HAVE A DYNAMO MACHINE RUNNING FIVE ARC LIGHTS , WE SHORT
CIRCUITED AT THE MACHINE WITH ONE OF YOUR LAMPS , IT BLAZED UP WITH
A LIGHT , ALMOST AS BRIGHT AS THE ARC , I TREMBLED FOR THE SAFETY OF
THE LAMP WHEN I SAW THE LIGHT , BUT IT STOOD IT , I WON MY BET,
AND MY FRIEND SOLO HIS GAS STOCK THE NEXT DAY .

NEXT WEDNESDAY THE 30. INST , THE WARDENS OF THE PENITENTIARY
(STATE) HAVE THEIR ANNUAL DINNER , THEY HAVE BEEN DOWN TO SEE YOUR
LIGHT , ARE VERY ANXIOUS TO INTRODUCE IT , WHICH THEIR OFFICE PERMIT

THEM TO GO WITHOUT ANY RED TAPE , I AM INVITED TO THE DINNER , AND THEY
HAVE ASKED ME TO GET FROM YOU SOME DATA THAT I CAN PRESENT TO THEM
AND MY OBJECT IN WRITING THIS IS TO ASK YOU TO SEND ME DOWN ANY
FACTS THAT YOU MAY THINK PROPER , AND OF INTEREST TO THE MAYOR THAT I CAN
INTRODUCE , , AND IT WOULD BE DESIRABLE TO HAVE A FEW LINES FROM YOU
:RIG RASH

YOU OF THE COORDINATEMENT OF THE RICHMOND COLORED BARRIERS IN MA I
HTIW WOULD TO APPOINTEE FOR THE BARRIERS OF THE BARRIERS. WOULD EACH OF
THE TAHT THAT WE HAVE BEEN ASKED TO HAVE A LETTER ON THE
EVENING BARRIERS OF THE BARRIERS OF THE BARRIERS. WOULD EACH OF
AND ALTHOUGH WE NO LONGER
THOUGH AS THE BARRIERS OF THE BARRIERS OF THE BARRIERS. WOULD EACH OF
THE LIGHTS BURNING. WE HAVE VISITED IN EVERY DAY CHURCHING ABOUT
THE LIGHTS BURNING. WE HAVE VISITED IN EVERY DAY CHURCHING ABOUT
OFFICER OF WHICH ARE PERSONAL FRIENDS) AS TO THE BREAKING OF YOUR
RASHY OF YOUR

LAMP . THAT I MADE ONE OF THEM BET THAT ONE OF YOUR LAMP WOULD
STAND ALL THE CURRENT HE COULD PUT THROUGH IT , I THROUGH IT ,
ONE OF THE LAMP , AND HE TOOK I TO THE " DAILY NEWS OFFICE " WHERE THE
THEY HAVE A DYNAMO MACHINE BURNING FIVE AND FIFTEEN
CIRCULATED AT THE MACHINE WITH ONE OF YOUR LAMP , IT BLEAZ UP WITH
A LIGHT , ALMOST AS BRIGHT AS THE AND , I THEREFOR FOR THE DAY OF
THE LAMP THEN I SAW THE LIGHT , BUT IT STOOD IT , I NOW MY BET
AND MY FRIEND BOLD HIS GAB STOK THE NEXT DAY .

NEXT WEDNESDAY THE GO' INOT , THE WARDENS OF THE PENITENTIARY
(STATE) HAVE THEIR ANNUAL DINNER , THEY HAVE BEEN DOWN TO SEE YOUR
LIGHT , ARE VERY ANXIOUS TO INTRODUCE IT , WHICH THEIR OFFICE PERMIT

Letter Jan 27, 91

Dear Sir

Yours

2^d NY Jan'y 28-81
Wm B. Conway
Ans'd Jan'y 29-81

Private The Herald.

New York, January 28, 1881

My Dear Edwin

On the last page of
the enclosed article you will find,
I think, all the authority you need
to obtain for the purpose of securing
permission to introduce your
light into one district at
least. That plan is worth
trying - that is, application to
the Commissioner of Public Works.

When next you
come to town drop in here
for a few minutes, if you
have time. I was unable

excuse your inquiries on
Wednesday last because I
felt I was keeping you from
dinner as well as from
other visitors

Yours sincerely
Thomas W. Forman

THE EDISON ELECTRIC LIGHT CO.,

9 BROAD STREET,

NEW YORK, N. Y.
H. H. GALLAGHER, V. Pres.
W. J. FARRIS, Treas.
C. GOODMAN, Secy.

New York,

July 1st 1887

Thomas A Edison Esq
My dear Sir

I take pleasure
in commending to your kind
attention Mr Segawa Kimikura
Consul of Japan, who with
a party of friends, will visit
Minto Park for the purpose
of meeting you and seeing what
you have accomplished in
the matter of lighting by
electricity

Yours truly

Howard Sew

Enclosure
January 6

EARL ARNOLD,
"COURAGE, LONDON."

6, Lombard Street, E.C.
London, Feb 1 1881

J. A. Edison Esq.,
Oranienpark
New Jersey.

Dear Edison, I enclose you sample of a
new fibre sent me today, without
any particulars, except that
it is ~~supposed to be~~ a new fibre,
and may be of use to you.
I have addressed an inquiry
to the sender asking where it
is to be obtained in large quantities,
on what terms, and what it
is called. I will communicate
this information to you as soon
as received, and meanwhile
I would be very much obliged
if you will report to me
the results of any experiments
you may make.

Yours truly,

W. H. Preece

ENCL. ADDRESS.
"GUTHRIE, LONDON."

6, Lombard Street, E.C.
London Feb 1st 1889

J. A. Edison Esq.
Inveris Park
New Jersey U.S.A.

Dear Edison, The letter to W. Frazer Rae Esq.
is received and will be forwarded as
soon as I can ascertain that gentleman's
address.

Yours truly

W. Frazer Rae

Enclosed cannot read
many thanks W.F.

Bamboo. No. 1
Office of

THE FIRST JAPANESE

MANUFACTURING AND TRADING COMPANY,



No. 865 Broadway,

New York, July 2, 1881

Mr J. A. Edison
Lucas Park
N. J.

Dear Sir

We have
just received some bamboo
from our main office
in Japan & would like
to know if you need
them. We remain

Yours truly

THE FIRST JAPANESE MFG & TRADING CO.,
NO. 865 B'WAY. N. Y. CITY.

Ask what are these samples and
how much you get?

have written this

[Signature]

Corkillod, le 2 *Jan* 1881

Monsieur Edison, New York.

Nous avons l'avantage de vous remettre d'autre part facture
aux marchandises que vous avez bien voulu nous commettre, par
l'intermédiaire de Monsieur H. Trullini de Genève.
Vous priez de nous créditer de son montant en Fr. 71.60.

Veuillez continuer à nous favoriser de vos ordres et agréer

Monsieur nos salutations empreintes.

H. Trullini

Comme vous employez des courants de haute
tension nous avons mis des câbles d'une forte couche
isolante, qui a un peu augmenté leurs dimensions, mais
de ce que Monsieur Trullini nous dit, nous voyons qu'ils nous
paraissent à l'avantage de donner une sécurité, nous
avons leur prix naturellement.

Sous vos dix livres, d'après convenances, nous
remettrons le montant de notre facture en papier sur
Paris.

Nous avons dû pour garantir les câbles les enrouler
sur des tambours en fer que nous vous facturerons au
prix constant.

Vous ne pouvez pas négliger en posant nos câbles d'enrouler
à plomb de goudron de gaz, et d'isoler avec du goudron
toute machine qui se trouve en contact avec les câbles.

H. Trullini
1881

Je suis sûr que vous n'avez pas oublié de nous adresser les câbles que vous nous avez promis. Je vous prie de m'en adresser un peu plus tôt que possible. Je vous prie de m'en adresser un peu plus tôt que possible. Je vous prie de m'en adresser un peu plus tôt que possible.

BERTHOUD BOREL & C^{IE}

CORTAILLOD

CANTON DE NEUCHÂTEL - SUISSE

Cortaillo, L. & G. 1881

Monsieur *Eisow* *Arletto* *parle* *New York* - *Doit*
 Pour les marchandises ci-après exposées par l'entremise de Messieurs
Arletto & Comp. au Havre

| | | | |
|--------|----|--|----------------|
| BB & C | 43 | Uttambour en fer conteneur | |
| | | 1156 mètre Carls & dune construction | |
| | | Carls 6/10 mètre chapeau Co. 1/2 m - 1809.60 | |
| | | emballage | 1.50 - 1809.60 |
| | 44 | 946 mètre Carls Laminé | |
| | | Carls 5.5 3/4 m double planb | |
| | | 1/2 m - 1809.60 | |
| | | emballage | 1.50 - 1809.60 |
| | | S. C. ou O | 5 1809.60 |
| | | | 594.32 |

Deaver & Co
have this matter
in hand quick

RECEIVED

N.Y.

Feb 4 81

J. A. Edison

A Committee of Baltimore City
Council are in N.Y. and are
desirous of seeing an exhibition
of your Electric Light. Can you
receive this evening Answer.

H. G. Hedderman
Chairman
Fifth Avenue Hotel.

29 Paid

Feb 4 81
Spaldard 3 Broad St N.Y.

Committee of Baltimore City
Council want to see light
tonight Ask Edison if they
can do so Telegraph H. G. Hedderman
Chairman Fifth Avenue Hotel

Answer

Triffin

1.47 Pm.

E. P. & Co.
 200 Broadway
 New York
 1884

FOREIGN AGENCIES:
 ANTON REICHMANN
 SOLE AGENT FOR GREAT BRITAIN
 181 REGENT ST. LONDON
 CARL HEIN. MEYER
 SOLE AGENT FOR THE CONTINENT
 104 LEIPZIG STR. BERLIN

Educational Publishers
 Boston, Feb 8. 1884.

Dear Sir
 Menlo Park
 N. J.

We are now making additions to our
 stock, and are putting up a new engine and
 boiler, and are contemplating at some time
 to build a new light. We desire to make
 provision for the space required by the electric
 machine. We would therefore ask you for
 information as to the space required by
 one of your machines, large enough to
 supply say 10-15 lights, each and powerful
 enough to light up a standard lithographic
 press. Your attention to this request will
 be appreciated.

Yours truly
 E. P. & Co.
 S. H. Pomeroy

Phila Feby 1881
Jm Sollenberger
a Feby 17

Have no circular
Exhibition of Ed working
Philadelphia Feb 14th/81

Mr. Edison Dear Sir I
was looking over an old
Encyclopedia Britannica
of 1848 & in noticing the
efforts that they were make
ing to examine Electricity
in 1680 & so on up & then also
noticing myself to day the
power & Electricity that there
is in steam. I thought of
you & thought certainly
I should like to visit
your Sanctum. I certainly
wish you would send me
a few circulars of your
present works so far as

How much money
do you want?
13 go with you
to the bank

I am glad to see
you wish a pub-
licity of the same. To
day there are great
things to transpire before
many months.

Yours Truly
L. M. Hollenberger
Davis Hotel
Chula Vista.

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This message is an **UNREPEATED MESSAGE**, and is delivered by request of the sender, under the conditions named above.

A. R. BREWER, Sec'y. **NORVIN GREEN, President.**

NORVIN GREEN, President

Dated Newburgh, N.Y. Feb. 15 1881

Received at M.H.

J. J. A. Edison,

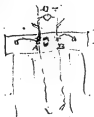
READ THE NOTICE AT THE TOP.

There is no binding post two brackets between A and B. on switches sent. Can get light without connecting these brackets, is this right. Evidently something loose

J. Bayler

27 paid

File



Office & Salesrooms,
No. 104 FULFORD STREET, 449 & 451 WATER STREET,
New York.

Salesrooms,
New York.

Branch Offices,
45 NICHOLAS AVE. 179 LIBERTY STREET,
Chicago, Ill. Pittsburgh, Pa.

HINDS, KETCHAM & CO.,
LABELS AND SHOW CARDS,

New York, Mar. 4 1889.
Mr. Wm. N. Upton
Will you please
send us by express
twenty sockets and thirty
or forty lamps - some
of the old style lamps
have given out and
we find ourselves short
of light. -
Respectfully yours
J. E. Hinds

Miscellaneous

Mr. Powers takes up
the budgets for E.
tasks information.
(clearly in estimate
by Mr. Insall.)

Mail st

Dr Gowen

Quick

Brighton, Conn. March 5, 1881

Dear Sir, I am a brother
in-law of Col. Townsend, your manager
in London. I have got into a little
squabble with an editor in vindicating
you (though you don't need my support)
and I beg you to let your secretary
inform me immediately how long a
time the electric lights burned contin-
uously in Menlo Park since you started
them about last Christmas. Also be
kind enough to tell me the name
of the company organized to furnish
the electric light in the lower part
of New York. Of the system you invented
is at present applied for the purpose of
lighting any city or portion of a city,

I should be happy to know it.
Do you hold the majority of
shares in the N. York Company?
I beg your pardon if I am
impertinent. I am moved to trouble
you only in the interests of truth.

Allow me to offer you my
sincere & profound congratulations,
and to assure you that I regard
you as great benefactor of the
human race,

Very cordially & respectfully,

H. N. Powers,

Rector Christ Church,

Miscellaneous
~~to~~

Asks information about
Porter Allen engine appli-
cation to dynamos, &c.

J. F. McCutcheon
Mar 10th 88

Recd
12/28/81

Phila March 10th 82

are good & willing to
go together with
Major Allen & Co.

not by way for General
P. J. Jackson

I have been looking
through the various steam engine
establishment of this city
for the purpose of selecting
a high speed engine suitable
for driving electric generator
and was informed by Porter &
Allen of this city that they
had built you one of these
for that especial purpose
please let me know if you
have it in operation and
if it is performing its work
satisfactorily

Yours Respectfully
John F. McCutcheon
425 George St Phila

OFFICE OF
THE UNITED STATES ROLLING STOCK CO.,
No. 27 PINE STREET,

New York, May 5 1881

Dear Mr. Edison

Allow me to introduce
to you my friend Mr. P. Garay of
Paris, who is anxious to secure for
his factory the best electric light which
he can find. I have told him
of you before deciding upon any
one system & have no doubt his
visit to you will prove convincing.

Thanking you in advance
I remain sincerely yours
P. Heyewich.

Yr. Edis. servt.

P.S. Did you receive the Cijan
& send you? Tell me please
whether you liked them.

T. A. EDISON,
65 Fifth Avenue.

New York, 13th May 1881

Dr Naid

Wenonah Park
New Jersey

Dear Sir, Referring to
your favour of 6th inst
I do not want ~~them~~
25 ohms cold but
25 ohms hot giving
16 candles

Yours truly
Thos A Edison
J

THE AMERICAN UNION
TELEGRAPH COMPANY is not to be liable
 for damages arising from any failure to
 transmit or delivery, or from any error in the
 transmission or delivery of, an unexpected
 telegram, beyond the amount received for
 sending the same. But, to guard against
 error, the company will repeat back any
 telegram, for an extra payment of one-half
 the regular rate, and in that case it is not
 to be liable for damages, beyond fifty times
 the amount received for sending and re-
 peating the telegram.



THE AMERICAN UNION
TELEGRAPH COMPANY is not to be
 liable in any case for damages, unless the
 same be claimed, in writing, within sixty
 days after the receipt of the telegram for
 transmission. And this company is not
 to be liable for the act or omission of
 any other company, but it will en-
 deavor to forward the telegram over
 the lines of any other telegraph com-
 pany, necessary to reaching its destina-
 tion, but only as the agent of the sender
 and without liability therefor.

LESSEE OF THE DOMINION TELEGRAPH CO. OF CANADA, AND CONNECTING WITH THE FRENCH ATLANTIC CABLE.

To: *Mr. Edison*
 Sent by: *Na*
 Received by: *Mr. Edison*
 Date: *May 15*
 Time: *11:30*
 Rate: *French Cable 2.25*
 Remarks: *Edison, May 15*
 and *French*

Edison,
may
Passinanti is living
and writing him hope
and model quickly
happy serve you
Longworth Powers

with him - I shall be very glad
to further your interest in
any way I can here in Florence.

In telegraphing or writing to,
me Longworth Powers Florence
is quite sufficient address.

I was very sorry I was not
able to go up to see you again
before leaving the States, but was

cramped for time - I should be very
happy to receive from you three
good sized, clear photographs done
by Parony, of your head & show
the profile (separately) & the 3/4 view.

I should also be very glad to get
any communication from you from
time to time in regard to the success
of your electric light transmission
of power in New York.

I should also be very glad to get
any communication from you from
time to time in regard to the success
of your electric light transmission
of power in New York.

Ever glad to serve you believe me
yours very respectfully
Longworth Powers

Villino Farnesi, fuori Porta Romana

Florence May 26th 1881

Thomas A. Edison Esq.
New York

Dear Sir,

Your cablegram reached me
on Morning of 15th & I replied in af-
ternoon as follows. "Edison New York"

"Paciniotti is living and writing"
"My hope send model quickly"
"Happy serve you - Longworth Powers"

Since then I have communicated
with Paciniotti who is Professor in
Bagliari, Sardinia & have already
ordered the exact facsimile of
his Electro Magnetic Machine -

begging all speed to be used - I
shall do all I can to hurry it on &
shall send it to you by quickest
way. A friend of mine here also a
professor of Physics tells me the Gram-
me Machine is the same as Pac-
iniotti's - His (P)'s model was in Pisa.

But he now has it in Bagliari.

Puckey

Paris

royalty

How much does Herz

want

Edison

American
Light

21st May 81

Cables to & from
Puskas re
Henry Francis
Patent & Co
nuovo Cimento

Blank No. 11

No.

283

CABLE MESSAGE.

745

THE WESTERN UNION TELEGRAPH COMPANY.

Cheek.

13 Paris

ALL CABLE MESSAGES received for transmission must be written on the Message Blank provided by this company for that purpose, under and subject to the conditions printed hereon and on the back hereof, which conditions have been agreed to by the sender of the message.
A. R. BRETHERTON, Secretary. NORVIL CHILTON, President.

Received at.

791 BROADWAY

May 31 1881

Edison

my
mailed requested number
Ciments no result
Kerg yet
Pushas'

Amc 4/28/81
Longworth Powers from Paris, France
Florence June 28th 1881
Thomas A. Edison Esq
New York City
Dear Sir

I only wish to send
a few lines to say that the
Paccinotti machine is being
constructed by Paccinotti him-
self & in a recent letter he
says he hopes to be in Florence
in the beginning of August
when he will bring the machine
with him & I shall send it
to you by steamer from Leghorn.
I feel you will think it a
long time to wait, but in Italy
you can not have things come
as they are in America.

Hoping you received my letter
of 27th N. Y. Telegram of 15-16th
Believe me yours truly
Longworth Powers

American
Light
Longworth Powers
28th June 81
Paccinotti
Machine

Longworth Powers
28th June 81
Paccinotti
Machine

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and RECEIVES messages only on conditions, limiting its liability, which have been assented to by the sender of the following message.
Sender can be placed under duty by repeating a message back to the sending station for comparison and the Company will not hold itself liable for error or delay in transmission or delivery of messages.
This message is an UNREPEATED one and is delivered by request of the sender.
The conditions stated above.

A. N. BREWER, Sec'y.

NORVIN GREEN, President.

Date Monday June 27th 1881.

Received at 791 BROADWAY. July 1st

To F. R. Green

READ THE NOTICE AT THE TOP.

65-5 Ave
Shall we send
Big- two dynamo's
is finished answer
Thos Logan
11/17/81

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wire.

Blank No. 8

No. 457

CABLE MESSAGE.

809 Pm

THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blank provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the Message.

NORVIN GREEN, President.

Check 6 London direct

Received at

791 BROADWAY

Aug 6

1887

Maxida my
T.A. Edison 63 Ave

my recollection is that Henry M. Alexander gave me what he and Maxim and Schuler represented to me as maxims original platinum lamp they claimed that the lamp was precisely the same as what you claimed to have just discovered and patented and that unless you made terms with them they could invalidate your patent they squashed

No. 8

No. 457

CABLE MESSAGE.

THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blank provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the Message.

A. R. BREWSTER, Secretary.

NORVIN GREEN, President.

Check.

Received at

791 BROADWAY

Aug 6

1887

me to show you lamp and see if I could arrange union of interests with you I took lamp to you at Newark and communicated above information and suggestion you declined entertaining

diba

where with such message passed.

This Company will not assume any responsibility in respect to any message beyond the terminus of its own lines; and it is agreed between the sender of the following Message and this Company that the sender of the message hereby agrees to pay for non-delivery to the next connecting Telegraph Company, of any uncompleted message, beyond the amount of that price which is agreed to this Company out of the amount received from the sender for this, and the other companies, by whose lines such message may pass to reach its destination; and the sender of the message hereby agrees to pay to the Company, beyond fifty times the extra sum received by this Company from the sender for repeating such message over the connecting Telegraph Company, of any repeated message in any case for delays arising from interruptions in the working of its lines, nor of errors in cipher or obvious mistakes. And this Company is hereby

This Company is not to be liable for damages in any case, where the claim is not presented in writing, within thirty days after the sending of the message.

[illegible]

This Company is not to be liable for damages in any case, where the claim is not presented in writing, within thirty days after the sending of the merchandise.

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6, Lombard Street, E.C.

London, Aug 18th 1881

Thos. A. Edison Esq.
65, Fifth Avenue,
New York.
U.S.A

Dear Sir,

I beg to confirm the following cable
between us
from you Aug 5th

Cable your recollections offer to me
from Schuyler of Maxims' platinum
lamp in seventy-nine important to
"be full"

to which I replied on the next day as follows:-

My recollection is that Henry M. Alexander
gave me what he and Maxim Schuyler
represented to me as Maxims' original
platinum lamp. They claimed that the
lamp was precisely the same as what
you claimed to have just discovered
and patented and that unless you
made terms with them they could
invalidate your patent. They requested
me to show you lamp and see if I could
arrange union of interests with you.
I took lamp to you at Menlo and
communicated above information and
suggestion. you declined entertaining.

Yours truly

J. P. Howard
J.P.

[AUGUST 19, 1881]

My Dear Johnson:

I have just learned that the Maxim Co have by their usual misrepresentation succeeded in obtaining Contract for lighting one of the Panama RR ferryboats as against us. This is pretty rough when one considers that what they put on is one of the most shameful infringement that ever existed that an unimportant decision on the patent of a ~~man~~ upon an entirely foreign matter

is represented to the Panama RR as ~~being~~ affecting our patents & giving them rights, ~~which~~ when it is a notorious fact known ~~for~~ throughout the world ~~that~~ & should even have been known to a Panama official that ~~at the time of the~~ ~~1879~~ ~~that said~~ ~~man~~ of that that "Scientific impossibility" the subordination of the Electric Light was accomplished by me, ~~and~~ ~~all the means & methods~~

and ~~it would~~ one would
 naturally suppose that
~~it~~ even a novice would
 know that the means &
 methods of Lougheed
 would belong to me &
 not to a private Company
 who appears in the
 field over a year
 afterwards. = I ~~do~~
~~not think anyone~~
~~but we~~ do not
 care the slightest about
 any money we could make

out of the Panama RR but
 It seems a little rough
 that this contract should
 be given ~~to~~
~~somebody else~~ because
 we would not stoop to
 false statements, and
 Especially when one considers
 that the ~~very~~ exhibition
 of this very light has
 brought over 70 000 people
 over the Panama RR to see
 it in operation at Menlo Park
 kind that long before

these pirates started in
business - I understand
you are acquainted with
Mr Cassatt, would you
not go and place this
matter before him, and
explain the lies of these
infamous chysters,

Yours
T A Edison

Wmth Aug 19th 1881

My Dr Johnson

I have just learned that the
Maxim Light Co. have by their
usual misrepresentation obtained
a contract for lighting one of the
Penn RR Ferry Boats ~~as~~ against
our Company. This action on the
part of the Penn & Co is said to have
been influenced by the late unimportant
decision of the Patent Office upon
the Thermostatic Regulator - an entirely
foreign matter to the present state
of the Electric Lighting problem. It is
said that this decision has been
used by the Maxim Co to give
color to the utterly false claim
that they have the legal position
in incandescent lighting while I
am the Pirate.

It seems to me that of all men
a Penn & RR official should
know that that Scientific impossibility
the subdivision of the Electric Light
was accomplished by me - by me
alone - at Menlo Park. Why? the
inhibition of this very thing that is
now claimed by others - brought

2

to Menlo Park over 70,000 people
 long before Maxine or any one
 else undertook to "solve the
 problem" In view of this fact alone
 it seems passing strange to me
 that any official of the Penna.
 A.R.C. should not see that the
 means & methods of doing the
 thing ~~should~~ must of necessity
 belong to me. But not to a pirate
 who appearing on the scene many
 months after I had proclaimed
 to all the world that the great
 Central fact had been accomplished
 and was showing to thousands
 the Modern Operandi by which
 it was done -

I care nothing whatever for the
 money considerations involved in
 this matter with the Penna. Co.
 but I do care for the moral
 effect of their decision against
 me. It is disgraceful beyond
 measure that because we
 will not stoop to counter lie
 & misrepresentation that so
 signal injustice should be done
 us by a great Corporation.

3

As to the other point upon which
 their decision is said to have been
 reached. viz: Superior Economy =
 You will recognize at once a
 simple fraud. It is notorious
 that they can get out $\frac{1}{2}$ the
 No of Lamps of a given candle
 power - yet horse power that we
 obtain - Each a decision could
 only have been reached by the
 acceptance by the PRR official
 of a false statement, ^{the most in people} both as
 to their own & our ~~country~~ Economy
 I assure this to you and I
 understand you are an old
 Penn^a Ark man and ~~have~~
 acquainted with Vice Pres^t
 Cassatt & other Penn^a & Ark
 people; & can probably obtain
 from your friends for me a
 hearing. My Relations past present
 & to come with the Penn^a & Ark
 as a resident on their direct
 report of no inconsiderable
 moment should also entitle
 me to this - Please see them
 on this subject & report to me
 Yours Truly Thos Edison

Geo. S. Ladd, President.
Jas. Gamble, Vice President.

M. Greenwood, Treasurer.
Jno. I. Sabin, Superintendent.

Gold and Stock Telegraph Co.

Of California.

OFFICE, NO. 222 SANSOME STREET,

San Francisco, Aug 29 1881.

My Dear Mr. Shull

If you will allow me to trouble you, I would like to get an idea of the form of application made for the Edison Elect Light franchise, I have talked with many of our prominent men here today and feel sure I can form as solid a company as San Francisco can furnish. Mr. Edison was kind enough to tell me, if I could put in an application from such parties, he would give me the benefit of his assistance, when the time should come for consideration of same, (and I am sure, after reimining me morally and financially, not to speak of the game I was guilty of, to account for my sudden and remarkable disappearance in New York. I am letting ^{my presentation} off cheaper than my wife might if she was handling the matter.)

I tell you Edison's name is a power in the land, these old "money-bags" that are

Geo. S. Ladd, President.
Jas. Gamble, Vice President.

M. Greenwood, Treasurer.
Jno. I. Sablin, Superintendent.

Gold and Stock Telegraph Co.

Of California.

OFFICE, No. 222 SANSOME STREET,

San Francisco, _____ 18

oil-hardened flint in ordinary matters, pick up their cars when his name is mentioned and I think in a week I could get every Bank President and Capitalist in the City - You don't know how it pains me when I reflect what an ordinary ~~man~~ mortal in some things, he is

I have been much delayed on my journey home, tried to come by southern route and was laid up at Las Vegas and Santa Fe eight days and finally was obliged to go back to Denver and come by Union Pacific - det Santa Fe. I found a Spaniard who had a nice mine of excellent quality, very straight, though I questioned from his samples whether he could obtain it in sheets larger than - say 6x6 - that is in quantity - he had one sheet however about 18x10 -

He could talk no English and I very little Spanish - I learned from him however that he was selling it in Boston and had an unlimited supply and would take \$300 -

3

for whole, all of which, except the latter, I took
with the same amount of confidence as if he
had been a New York man - I learned how-
ever that there was much mica in the country
and if you wish, will put you in correspondence
with some parties there who will send you some
samples and give you all the information you
desire - Please remember me kindly to Mr
Edison & Mr Johnston, and with pleasant
recollections of your many courtesies

Yours cordially,

Louis Glass

Direct to Cherokee, Butte Co., Cal =

Recd
12/18/81

San Francisco
Aug 30th 1881

Prof. Tho^s A Edison

Dear Sir On a trip through New-Mexico, Arizona & Southⁿ California I discovered a very peculiar fibrous tree, of which I enclose herewith a sample - As you will observe, there are two varieties of fibre one of which partakes somewhat of the nature of cane or bamboo, which I am told you are using for "Carbons" in your Electric Light - Perhaps ^{this} may be found to possess value in that direction - If so I can procure any quantity you may desire - The tree is of the Cactus species and I am about to introduce the fibre into the manufacture of paper and several other articles - Would take pleasure in forwarding to you a larger quantity if you can make it useful. I will

also enclose a sample of the fibre (marked No 1-) which has been treated and reduced to pulp for paper manufacture.

Examined under a glass it will be seen that the fibre is almost indivisible.

The sample of pulp has not been bleached but is susceptible to the highest degree of whiteness by the bleaching process.

— McLaughlin tells me your Company will require large quantities of Copper. I have control of a good Copper mine in New Mexico and would be glad to compete with others to supply you with Copper. My address, should you desire to communicate with me will be Santa Fe New Mexico after this date.

Very Resp
J.W. Cummings

American Light
Sept 30. 81
U.S. Sig. Service

W. B. C. 1881

Office of the Chief Signal Officer,

Washington.

Sept. 30. 1881.

Dear Sir:

I regret exceedingly that Mr. King's recent balloon ascension should have reached so speedily a termination ^{and rendered} it impracticable to make a longer use of the excellent little electric lamps which you furnished for the occasion.

I take pleasure in acknowledging the favor conferred. I would

ask your commands
for the disposition of
the lamps, and what,
if any, charges you
have entered against
this office on that ac-
count.

The following
is the condition of
the lamps - one
found broken on
unpacking, three
broken in experi-
menting, four
now at this office,
and four on the
way, per express,
from

from Minneapolis.

Very Truly Yours,
W. M. Wagon

Brig. & Art. Maj. Gen'l,
Chief Signal Officer, ^{USA}

Mr. Thomas A. Edison,
65 Fifth Avenue,
New York City.

206 Broadway, ^{100th St.} Room 124
New York, Oct 2/84

Mr J. A. Eckman, Rondedale
(Meads Park) ^{Hyde Park} Kansas
Dear Sir

I have two patents covering the only means
of generating light by means of
electricity, issued in 1878.

My new Electric Light Co are taking
steps to place in every house electric
lights, and as the same currents are
sufficient to operate a small appa-
ratus, (or large one if necessary, that
will cost but a few dollars, to
simply generate all the light they
would be required to preserve the
sanitary status of the atmosphere
of each house or room free from sewer
gas, or malarious miasms, so that
each person or room occupant could
enjoy the quantity of light in
the air of their dwelling or room
as they would the light. And that
it is now become a known necessity
that light is indispensable to good
health even malarious or sewer gas

as found. Your company could
put in each house or house, and
before presentation along with the
lights, at a rental as they would
a telephone, and make a good
revenue out of the same.

The process that the U S Beyond
Co of 11 Murray St. New City
is meeting on the sale of their
affordable phosphorus oxide
generators. Shows that the day
has arrived for their introduc-
tion into offices and dwellings
to save electric light Co -

I will sell the Potatoes at a low price. Your Co would find that they could make money in subdividing them into Offices, stores, Saloons and dwellings. To keep the air free from smells of all kinds, kill & disinfect all malarious or sewer gasses, and keep the air

pure and healthy,
every office and home bladder would
want one where I was furnished
and operated by an electric light Co.
the public buy the phosphoric machine
which is dangerous as ~~the~~ the
phosphoric requires extra care and
attention even three days to prevent
contamination, besides the phosphoric
acid eliminates affects the brain
causing softening thereof.

In a room full of tobacco smoke
turn on your machine & set in
operation. It immediately destroys
the smoke and odor, leaving the
air free from any taint.

In a house where an organ machine is generating organ in the upper stories, and it can permeate through the rooms below, hypnotic leasars, Dr. Deloit feels Opethion, Ague the Connet occurs.

I should like to have you consider
this prospect and think you are
in the way to make money out
of these patents by getting your
comp. reg. to take hold of them

and ~~restore~~ the machines
along with the lights in my city.
Hoping that you may find
time to consider the matter
and that I may hear from
you thereon. I am

Very truly, yours

W H Dendendale

is 1 - 4: 10 7
5 - 4: 10 1 -
- 5 - 4: 10 1 -

Don't want to rent my
cell ^{for} his generators
but will be glad when
we start station to
furnish current
for all such purposes

Office of the *American Light*
Public Ledger,
S. W. COR. SIXTH AND CHURCH STS.
PHILA. (Pa.)

GEORGE W. CHILDS, Proprietor.

Philadelphia, Oct 10 1881.

Thomas A Edison Esq

Dear Sir: Your light is about
to be introduced in the Baldwin
Loco. works in competition
with the Brush and Thompson
= Hoxton voltaic arc lights

and thinking that you might
not know the conditions
of the test I write to give
you a friendly warning.
Eighty of your lamps are
hung in chandeliers in
a dingy workshop in
size about 250 x 100 feet.
They cannot possibly light

the place; eighty gas jets, thus
disposed, would not do it.

A similar shop is to be
lighted by twenty voltaic
arc lights so that four of
your lamps of ~~from~~ ^{each} gas jet
power, are pitted against
one voltaic arc light, not
less than 500 candle power
and probably 1500 to 2000.

Of course I know that your
system does not pretend to compete
in candle power with voltaic
arc lights, but the public cannot
be made to understand this, es-
pecially with the lamps hung
in chandeliers and entirely too
few in ~~any~~ number to light the
room as ~~yet~~ ^{it} would be lit
by gas.

This is not "my funeral" I know,
but I take the liberty of calling
your attention to what is going on

here because I want you light
to have at least a fair show.

With best wishes for your
success I remain

Intincerely Yours

Addison B. Burk

4 2 7 9 - 4
3 1 7 5
2 4 6 2 2 7
1 0 1 7 1 0 - 10
2 4 1 2 1 6 2 6
1 0 1 0 8 6 6
2 4 2 2 6 6
6 2 2 2 2 2

988
2265 N.Y., 1881.

American Light
Hazen
Office of the Chief Signal Officer
Washington, Oct. 2, 1881

Dear Sir:

I have the honor to acknowledge the receipt of your note of the 6th inst., kindly presenting to this Office the lamps left over, and to say that I am under many obligations for your kindness, and can make good use of the lamps.

Very truly yours.

W. H. Meyer
Brig. & Fort. Insp. Genl.,
Chief Signal Officer, U.S.A.

Mr. Thos. J. Dawson,
No 65 Fifth Avenue,
New York City.

CHICAGO, ILL. OCT. 14TH, 1881.

T. A. EDISON ESQ.

NEW YORK, N.Y.

DEAR SIR:

I AM "BUSTED" AND MUST GO
TO WORK TO EARN SOME MONEY. I HAD RATHER GO WITH
YOU IF THERE IS A FAIR CHANCE. I DO NOT EXPECT ANY
STOCK INTERESTS OR PERCENTAGES. LET ME KNOW IF YOU
HAVE ANYTHING TO OFFER AND OBLIGE.
SINCERELY YOURS,

Geo. W. Blodgett
Blodgett

Oct. 28th,

George W. Blodgett, Esq.

Chicago, Ill.

My dear Sir:

Referring to your letter of the 14th, I give you

1000 shares of something for you.

Yours Truly,

THOMAS A. EDISON,

NO. 65 FIFTH AVENUE,

NEW YORK, Oct. 25th 188

Mr Moore:--

I enclose a letter and cutting from the
Phila. Ledger reporter for your information, which
please return.

Yours truly,

Samuel L. Cull

It is now back at 11 to
Lumber being the old up to
I have started in for the
Kearney and the other
deputy (and the other)
The Moore and the other
to look about done

Office of the Public Ledger,

W. COX, SIXTH AND CHESTNUT STS.
 GEORGE W. CHILDS, Registrar.

Philadelphia, October 18th 1888.

Mr Thomas A. Edison

Dear Sir: - I was glad to get your note and to learn from it that my motive in writing to you had not been misunderstood. You will see from the enclosed "local" from yesterday's Ledger that I was agreeably surprised by the efficiency of your light under unfavorable circumstances.

At the same time I think it better suited for smaller workshops. At Baldwin's

the other night they ran it up very high until the place was illuminated as though by voltaic arc lights but ~~but~~ several lamps (I think eleven) gave out in a short time.

I do not doubt that you can get as much ^(or more) effective light for one dollar as by any of the voltaic arc systems but the trouble is to make the public understand what you are aiming at. I shall do what I can to have the Edison light given fair play in that as in other respects.

Faithfully yours

Addison B. Burk

Activity in the Electric Light Department
Experiments of the Baldwin Locomotive Works and in the Pennsylvania Railroad
 Japan.—During the experiment of lighting Chestnut street by electricity, and the successful installation of the Edison buildings here with electric light, preparations have been and are being made to introduce two or more systems of electric lighting in the Baldwin Locomotive Works and in the new depot of the Pennsylvania Railroad.

On Friday evening the machine shop of the Baldwin Works, on Broad street, between William and Hamilton, was lighted up with Edison electric lamps, under the supervision of Mr. H. P. Moore, the superintendent of engines and being made for the illumination of electric lights in all the works, and for this purpose new engines are being ordered of from 100 to 150 horse power. At present a small engine is used for lighting the shop illuminated on Friday evening. The lamps are powered in four-light channels, and above each lamp is an automatic porcelain shade. Eighty lamps were in position, but two of the channels were not in order. It was estimated that nine horse power was used in maintaining the seventy-two lights in detail. The shop, although large, very dingy and filled with light-bearing machinery, was very well lighted, much better, in fact, in the relation of workmen than it could have been by a larger number of candle-power lamps. At the same time, the fact that the light does not take place under favorable conditions, added to the work of reducing the cost of fuel and oil, and the "safety" of keeping the channels clear of oil, swinging, and other impediments, the hanging of them higher than is usual. The future laid was also made for another shop, and are especially designed for the use of the light of the type of these disadvantages, the light apparently gives satisfaction. In a few minutes, and perfectly accurate, resembling very closely that of a lamp of the same or larger power. The new system of electric light is there, and may be lighted or extinguished by turning of a switch. Mr. Moore is confident that the light will prove cheaper than gas can be sold for. One of his estimates for furnishing 100 light, ten hours per day for 300 days in the year is \$400 for plant, including engine, valves and boiler, and the running expense, including interest on plant, is estimated at about one-half that of gas for the same period per thousand cubic feet.

Oct. 28th,

Abraham H. Park Esq.,

Office of the Public Ledger,

Phila. Pa.

Mr. Park
Dear Sir
Yours
of the 16th
has been received
and the interest
in the subject
of electric light
is much appreciated
and the subject
is being run up
to such a high point
that the people
who run them will
no doubt learn
better on future
acquaintance
with the work
The Baldwin Loko
people seem
very much pleased
with the light

I duly received your letter of the 16th,
concerning the interesting subject from the "Ledger"
and am much obliged to you for your kindly interest
in electric light matters at Philadelphia.

The reason that the lamps went out was owing
to their being run up to such a high point. However,
people who run them will no doubt learn better on future
acquaintance with the work. The Baldwin Loko. people
seem very much pleased with the light.

Again thanking you for your kindly interest,

Believe me,

Yours very truly,

[FROM SAMUEL INSULL]

October 20th.

My Dear Mr. Glass:-

I am almost ashamed to sit down to write to you as I have given your letters the go by so long that I am thinking you have got the impression that I did not intend to answer them. I hardly like to set about excusing myself so will simply say that inasmuch as I have to put in eighteen hours solid work every day, Sunday and week days, with the most charming regularity, some of my correspondence gets overlooked. However, Frank McLaughlin just came on here and he says if I do not write to you he will shoot me. So rather than become a martyr I will send you a few lines of explanation as to the electric light. I was just looking over the applications we have got from San Francisco for the franchise for that city and I find that there are about twenty some of which are from extremely good people so you see what you have got to start out against. But I hope that a little watchfulness when the time comes to close up a contract for San Francisco we shall be able to get it for you and your associates. I enclose you herewith a few circulars which we usually send out in answer to applications for general information and if you give them to your friends to read it may in a very few words give them some slight information of our system. I also enclose you circular asking for information as to the lighting consumption of a given city. You must use your own discretion as to answering this. I would not go to much trouble about the matter. I simply send it

to you to show you how systematically we set about our work. I also enclose the agreement between The Edison Electric Light Company owning the patents and The Edison Electric Illuminating Company of New York who are going to undertake the general distribution of electricity for light and power throughout Manhattan Island. This will give you some idea as to the nature of the agreement which will be made as to other cities. I think that the best thing for you to do is to get just the strongest people you can get put in an application for the franchise for San Francisco. It would be as well to have the application sent by yourself and all your associates and address it to The Edison Electric Light Company. If you send it to mine or Mr. Edison's care I will write a note and get Mr. Edison to sign it so as to place on file the fact that he is desirous that when the franchise is granted that it should be given to you of course all things being equal as to position and solidity of your associates, but upon this point I am sure there will be no trouble. I do not think the company will enter into any very serious negotiations until we have the first station started here in New York. You will appreciate how much better will be their position when Mr. Edison has placed beyond doubt the practicability of electric lighting on general distribution as opposed to and in competition with gas. They will be able to get a much better price for their property. Mr. Edison is very hard at work here preparing to light up his district down town about which I told you when you were here. We are making the

machines down at our works at Goerck St. just as quickly as possible. We have men engaged laying the street mains at the rate of from seven hundred to one thousand feet a night. (we do not work during the day at this work.) At our central station in Pearl St. we are now engaged in the installation of twenty-two hundred horse power Babcock & Wilcox Boilers and are also putting up a structure for the purpose of carrying the dynamos. We have the houses wired down in that district having obtained contracts by which we shall replace with electric lighting ninety per cent of the total gas lighting of that district which is about three quarters of a mile square. The gas companies are beginning to get somewhat scared down there now and we understand that they are returning to their customers the money deposited on the meter. One man told us that they not only returned him the money but also twenty two years interest added. Everything so far as inventing goes is absolutely completed and has been for some time past. The only trouble now is in the securing of machinery and if we could get that tomorrow we could light up within a month. However as matters go at present I do not suppose we shall get started before February at the earliest. Send on your application and do not think that because I have been so remiss in my attention up to this time that is is chronic with me.

very truly yours,

1733 Walnut St
 Philadel. Pa. Oct 28

Mr. Hrs. Edison

Dear Sir - In yesterday's paper I read that you had invented a very small electric lamp. Will you please tell me if the glass or shell enclosing the carbon is not larger than a nickel five cent piece? Also what a five to ten candle power lamp would cost by the hundred & how many cells would be required?

Very Respectfully
 H. W. Mason

For use in all
 Club
 1881

Blank No. 1.
THE WESTERN UNION TELEGRAPH COMPANY.
This Company transmits and delivers messages only on conditions limiting its liability, which have been accepted by the Senate of the following message:
 Messages are transmitted subject to the payment of a message back to the sending station for transmission, and the Company will not be held liable for any delay in transmission or delivery of the messages.
 The message is an UNREPEATED message and is delivered by request of the sender under the conditions stated above.
 A. B. BROWN, Secy. NORVIN GREEN, President.

Dated Montreal 31 1881.

Received at 791 BROADWAY Oct 31

St. Magieaton
 65 Dave

READ THE NOTICE AT THE TOP.

Hon Mr Abbott &
 influential party
 tomorrow probably brewer
 please communicate &
 make appointments for
 same evening to see
 E. Hearle
 21 Rd w

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN
 791 BROADWAY, near Tenth Street,

WHILE ANY REPLY SHOULD BE SENT.
 Direct Wires.

Ans. Nov 7.

Chicago, Dec. Nov 8, 1887

Friend Edison:

A man would sooner to shoot while
waiting for you to answer his letters.
This is not your usual way of doing
business. I don't want you to fix up
any fancy place for me, what I want
is plenty of hard work and a chance
to get thoroughly posted in the electric
light business. After that, as matters devel-
op, there may come good position open.
Left him
Come on right
away

Sir. Mr

Has Mr. Edison
87 Madison St
Room 10

Nov 7th 1887
Friend Edison
Amurich, Light.
N.Y.
C. J. Baldwin and J. B.

Miller of Pittsburgh are here in
behalf of themselves and Richd S.
Waring ^{Brothers} of that City, for the
purpose of a personal interview
with you on the subject of your light
for Pittsburgh. They are in a position
to get an exclusive franchise from
the City Authorities, for opening the
streets for Electric Light purposes,
but before proceeding further
want to know whether or not
they can have your light.

If you will put them in a position
to submit their claims on their
merits and they can obtain assurance
that they can have your light, they
will secure the franchise at
once, otherwise they don't care

to take any steps. I know
all of them intimately, in fact
they have formed a company
on my lead cable - and I can
vouch for their ability and
earnestness. They will explain
the situation there and the
efforts of other Light interests
in the same direction - As this
is a business matter I will
make no personal remarks
beyond assuring you with all
sincerity that I believe your
light would be well taken
care of in their hands - They
can form the strongest company
possible - They will call
again tomorrow evening at
8 o'clock - 8th Jno Delany

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY.

THIS COMPANY TRANSMITS AND DELIVERS messages only on condition limiting its liability, and is not responsible to the sender or the receiving party for any error or delay in transmission or delivery. The message is an UNREPEATED MESSAGE and is delivered by request of the sender under the conditions stated above.

A. R. BREWER, Secy. *401* NORVIN GREEN, President.

Dated *Bridgeport Conn 9th* 1881.

Received at *791 BROADWAY. Nov 8th*

To *T. A. Edison*

READ THE NOTICE AT THE TOP.

5 Ave Below 14 St

*Train delayed if
convenient would
be glad to see
you at ten tomorrow
morning*

*Baldwin &
Miller
14 Rd CS Mn*

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Mr Thomas Edison *St Louis 11-9*

Dear

*Am making a few experiments
and would like to procure one of your light bulbs
say if I could get one and at what price*

\$1.25

*address L. Bailett
2631 Persh st
St Louis Mo*

*Yours Respect
L Bailett*

D
11-9
4 P

Subject, _____

H. GREENWOOD,
PRESIDENT.

OFFICE OF THE
CALIFORNIA ELECTRICAL WORKS,
NO. 35 MARKET ST.

PAUL SEILER,
SUPERINTENDENT.

San Francisco, Nov 10 1881
In reply to yours

J. A. Edison Esq.
My Dear Edison

The Central Pac. Rail Road Co. have just about completed an immense Depot on the Oakland side of the Bay. it is out some 2 miles from shore. They want to light it by electricity & we have just lighted their Ferry buildings on this side with a Weston machine, and that Company offer to send one of their machines, like the one in the apartment building but we do not want to have any thing to do with their machine if it is possible to get yours.

The railroad Co. know that the Steamer Columbia has been using one of your lights for some 2 years, and they are particularly anxious for us to get one of your lights for them. The Mechanics Pavilion are just putting up a large over building.

Division 1
N. 22-1061

and would like to make calculations
to light it, with your light if they can
be assured that it can be had and that
it will be just what they want &c.
Now will it be possible for you to
strain a point for the Rail Road people
and give us one machine on some terms
either to sell it to us, or rent it, or in
some way enable us to put the light
in for the Central Pacific folks,
you know the light will be in good
hands if we get hold of it. Now please
see if you can arrange it in some way
for us and you will greatly
Obliged

The Cal Elec Works
M Greenwood
President

No. 44.

HALF RATE MESSAGES.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions, limitations and terms, which have been submitted to by the general public in the following manner:
Messages may be charged against only by repeating a message. The rate of the sending station for the message, if the party will not send it, shall be paid for service of the message. The message is an absolute liability for the sender, and the sender is not to be held liable for the message.

A. H. BRYAN, Secy.

NORVIN GILSON, President.

Dated

Received at

To

READ THE NOTICE AT THE TOP.

Chicago, Ill.
188
7:45 PM
Wm. A. Graham
65 save
shall be there
wednesday morning
Geo. S. Bliss
5 paid 1/2 B



— Edison Esq.

Inventor Electric Light

Menlow Park N. J.

Dear Sir,

I have been requested by the President of the Underwriters Association of the Pacific, to prepare a paper on "The Hazards of Electric Lighting" to be read before the Association at their annual meeting which occurs on the 15th day of January next, so I am perfectly ignorant of the subject, having never given it any thought or attention & know nothing appertaining to Electric Lighting that would in any way conflict with underwriting interests, I would feel obliged if you would give me such points as will enable me to prepare an intelligent paper on the above subject — it will be published in the daily papers & insurance journals & will excite considerable comment —

Kindly reply by return mail

Yours truly Edw. A. D. Sawyer Special Agent.

For general &
more detailed & more
concise give an opinion

American Light

200518.81

Payne

Will give him
any information
he may require

Subject, _____

GEO. S. LADD, PRESIDENT.
M. GREENWOOD, TREASURER.

OFFICE OF THE
PACIFIC BELL TELEPHONE CO.
N° 222 SANSON ST.

H. C. HYDE, VICE PRESIDENT.
JNO. J. B. DIN, SUPERINTENDENT.

Answer

San Francisco, 29 Nov 1881.

In reply to yours _____

No. _____

Mr. A. Edison, Esq.,
New York.

My dear sir:

You will doubtless remember my application in 1878 for the Pacific Coast rights for your Electric light, which you kindly referred to the Secretary with ~~st~~ special recommendation (vide Mr. Goddard's letters enclosed). Being advised by you (Nov 8/78) that the matter rested with the Company I prosecuted my application with President Green and others, with fair assurances of favorable consideration when they should be ready to negotiate.

I have recently learned of your assurances to Major M. Laughlin and Mr. Logan and have today met the last named gentleman, who will either telegraph or write Major M. Laughlin.

Subject, _____

GEO. S. LADD, PRESIDENT.
H. GREENWOOD, TREASURER.

OFFICE OF THE
PACIFIC BELL TELEPHONE CO.
N^o 222 S. SANSOME ST.

H. C. HYDE, VICE PRESIDENT.
JNO. J. BABIN, SUPERINTENDENT.

San Francisco, _____ 1888

In reply to yours _____
No. _____

on the subject of including one with them in the license for this coast. I have obtained the franchise from this City to lay pipes, conduits, wires etc. for this purpose, through all they asked, for fifty years, and was to have started today for New York to open negotiations with you and your Company, but I think under the circumstances that if those gentlemen and myself can unite our forces and divide the license it will be mutually advantageous. Certainly as the representative Electrical man of this coast - founder and President of the Cal. Electrical Works, District Telegraph, Gold & Silver Telephone Company etc - all of which have been entirely successful financially - my connection with the enterprise will give it great strength. I have just

Subject, _____

GEO. S. LADD, PRESIDENT.
H. GREENWOOD, TREASURER.

OFFICE OF THE
PACIFIC BELL TELEPHONE CO.
N 222 BANSOBER ST.

H. C. HYDE, VICE PRESIDENT.
JNO. J. SABIN, SUPERINTENDENT.

San Francisco, _____

1888

In reply to yours

No. _____

how to handle it, and can either furnish my share of the capital required to establish it or raise all that the concern requires upon my personal endorsement of the system.

Not knowing Mr. McLaughlin personally I ask that you will lay the proposition before him with as strong endorsements as you may be willing to make. Should he want further endorsement of my standing, you can refer him to Dr. Green, James Edson, W. H. Forbes or Theo. Bail, who know of my business capacity. As to my financial capacity I can satisfy Mr. Logan here.

With kind regards,

Truly yours,

Geo. S. Ladd

Q. R.

P. Butte in his opinion of Nov 29th 1884 for the American Electric Light Co. says

"I am therefore clearly of opinion that your company has the full right to make and sell Electric Light in the manner in which you do make it free from the just claims of all persons"

He certifies in a further part of his opinion that there are plenty of Dynamo machines for the production of electricity uncontrolled by any patents because they have been in use longer than the life time of any American patent and says "I should advise your Company as its Counsel to look very carefully into this matter before you put a pay a large royalty for any Dynamo machine unless it and peculiar combinations and devices are very different and better than those of any other possible machine to do the same work"

He is a courageous lawyer

" gives
" who an opinion that any
" patent cannot be successfully
" assailed but I feel such certainty
" of opinion as upon ~~any~~ any
" patent I have ever examined
" that your patent for a
" combination lamp can be
" maintained. This probably is
" the most essential of your
" patents

" The device for exhausting the
" air from the Receiver - the
" patent for which your Company
" owns - as far as I can judge
" is novel in some of its parts,
" and novel in combination,
" and certainly most useful
" making a better vacuum,
" (which is a great desideratum)
" than ~~any~~ by any other
" known method."

In the opinion of
L. P. Roberts their Engineer
he certifies that in the Jevier's
Pump used by the United States
Coy a vacuum is got with
one hundred & ninety thousandths

of an atmosphere; with
the Sprengel Pump used by
Edison a vacuum of one
seventeen millionths; with
the American Cogs Pump
a vacuum of one sixth three
millionths, or one seventieth
of the quantity left by Feisler,
and one thirty seventh left
by Sprengel used by Edison.

Burlete in his opinion
does not refer to the name
of any patentee or the number
of his patent

Recd
6/1/88

New York, Dec. 27/1887.

Friend Edison,

Mr. E. W. Fenton, of Chicago, has asked if I would survey and ascertain whether you have made any experiments on submarine lighting which you would be willing to have published. He is preparing a paper to be read before the next Chicago Electrical meeting and would be glad to present anything on the subject that you might care to furnish. I understand he wrote you but fears the letter miscarried.

Can hardly spare the time to call now -

Yours Truly

George F. Swannick,

Rm 33, N.Y. City

✓ 10. 2 ✓ 1 ✓
✓ 10 4 60 2 - 2 2 -

MEMORANDUM.

To *Thos. A. Edison Esq*
65 Fifth Avenue
New York

From
THE UNITED STATES ILLUMINATING CO.,
No. 90 CHAMBERS STREET, N. Y.

New York, Dec 5th 1881

Dear Sir

I enclose herewith the schedule
of prices as that I spoke of when I met
you Saturday Evening last

Respectfully
Wm. B. Brown

PRICE LIST

[illegible]

| | |
|---|----------|
| Focusing Lamp..... | \$190 00 |
| Projector for Beamhead Headlights..... | 150 00 |
| Projector for Ocean Steamship Headlights..... | 300 00 |
| Renewal of Incandescent Lamp..... | Each \$0 |

[ENCLOSURE]

THE UNITED STATES ILLUMINATING CO.

Sole Grantee of all Patents and Rights owned by
THE UNITED STATES ELECTRIC LIGHTING COMPANY, for the City of New York.

90 CHAMBERS STREET, NEW YORK.

—♦♦—
CAPITAL, \$1,000,000.
—♦♦—

EUGENE T. LYNCH, *President.*

JOS. W. HARTLEY, *Secretary.*

CHAS. F. ROBBINS, *Gen'l Manager.*

Stevens Institute of Technology,

HOBOKEN, NEW JERSEY.

Dec. 8th 1881

My dear Mr. Edison

I am not formally secured by the United States Elec. Co. in any way, being in fact with them in certain cases and against them in others. I have been however so much in their confidence that I do not think I could act for any one else in matters affecting their interests without their consent.

Very truly yours
- Oliver Norton.

THE EDISON ELECTRIC LIGHT CO.,
65 FIFTH AVENUE.

New York, Dec 9th 1888

Friend Edison:

I am off tonight. Am greatly obliged
for your kindness in matters. Will try to
show your people that they have not made
a mistake.

Sin. Yr.

Geo. W. Peck

E. L. W. Loomis

Wm James, Hickman & Co
25 Cliff Street,
New York 12/12th 1881

Sam Insull Esq
65 - 5th Ave
My dear sir -

Do you know whether acceptance has
been done lately in regard to the Souwville Co. Have
been out of town and have not even heard a word from
Souwville, am a little anxious, are you going
down to Atlanta on the 20th?

Yours truly
C. R. Hickman

will cannot possibly go out to Chicago
tomorrow, will write explaining
S. Insull

The Louisiana Telephone Company,

LOUISIANA AND MISSISSIPPI.

EXECUTIVE OFFICE, 47 CAMP STREET,

NEW ORLEANS.

Telephone Exchanges:
NEW ORLEANS,
VICKSBURG,
BATCHEZ,
SHREVEPORT,
MERIDIAN,
COLUMBUS,
GREENVILLE,
ETC.

JNO. H. BOFINGER, President.

W. H. BOFINGER, V. Pres't and Gen'l Manager.

W. W. HUCK, Sec'y and Treas.

New Orleans, 12th Dec 1881

Prof Thos A. Edison.

New York —

Sir — The Mushellic Electric Light Co are putting metallic circuits of double wound cotton covered & painted No 6 Copperwire on & over house tops in this city & among our telephone wires are Dist Telegraph Co's wires. City Fire Alarm & Police Telegraph & Gold & Stock & private wires are all on house tops —

The Electric Light Co will not be in operation for several weeks & before the do wish to know how the electric wires are run in New York & elsewhere & your opinion upon the proper

The Louisiana Telephone Company,

LOUISIANA AND MISSISSIPPI.

EXECUTIVE OFFICE, 47 CAMP STREET,

NEW ORLEANS.

Telephone Exchanges:
NEW ORLEANS,
VICKSBURG,
NATCHES,
SHREVEPORT,
HERIDIAN,
COLUMBUS,
GREENVILLE,
ETC.

JNO. H. DOPINGER, President.

W. H. DOPINGER, V. Pres't and Gen'l Manager.

W. W. HUCK, Sec'y and Treas.

New Orleans,

1888

manner of constructing wires
for Electric Lights —

The Company intends to
have these metallic circuits &
put on forty lights on a circuit
provided they get the subscribers.

They have one circuit built
& am now building on the second.

We find some of the people
here are frightened about these
Electric Light wires & in several
cases refused to take telephones on.
This reason — I anticipate considerable
trouble from objection &
no little uneasiness from fear
of some accident. The City
Fire alarm wires are old
& rotten & break often & many

The Louisiana Telephone Company,

LOUISIANA AND MISSISSIPPI.

EXECUTIVE OFFICE, 47 CAMP STREET,

NEW ORLEANS.

Telephone Exchanges:

NEW ORLEANS,
VICKSBURG,
BATCHEZ,
SALEVEPORT,
MERIDIAN,
COLUMBUS,
GREENVILLE,
ETC.

JNO. N. BOFINGER, President.

W. H. BOFINGER, V. Pres't and Gen'l Manager.

W. W. HUCK, Supt and Treas.

New Orleans,

1888

times cross our route wires
connecting many subscribers
with each other & for a while
until we can remove the fault.
when there is complaints, if
an Electric Light wire was
also connected with these
route wires of ours by the
fallen Fire Alarm wire would
not very serious accidents probab-
ly happen - You can see we
are not unnecessary in an every
place - for if it is not one
of our wire, or an Dist wire
it might be the Fire Alarm or the
Electric Light wire its self down
on ours - What is your opinion of this
Manner of erecting & constructing wires

The Louisiana Telephone Company,

LOUISIANA AND MISSISSIPPI.

EXECUTIVE OFFICE, 47 CAMP STREET,

NEW ORLEANS.

Telephone Exchanges:
NEW ORLEANS,
VICKSBURG,
NATCHEZ,
SHREVEPORT,
HERIDIAN,
COLUMBUS,
GREENVILLE,
ETC.

JNO. N. BOFINGER, President.

W. H. BOFINGER, V. Pres't and Gen'l Manager.

W. W. HUCK, Sec'y and Treas.

New Orleans, 1888

For Electric lights - a full
reply to cover this will be
appreciated & thankfully rec'd.
You certainly have made
many tests as to this very
thing & have large experience
with in New York
I tried to make your personal
acquaintance. I met several
of your friends but did
not see you.
It is most gratifying will
much oblige
Yours Respectfully
W. H. Bofinger

W. H. Bofinger
47 Camp Street
New Orleans, La.

LONDON WORKS.

Milchburn Road, S.E.

Dec-14th 1881

Edison Esq
Electrician
New York. U.S.

Girl I see by our Newspapers
that your Carbon horseshoes
break and give you trouble.
I first saw this over a year
ago and had thoughts of
writing to you but put the
thought aside thinking "it
might be deemed an ignorant
intrusion in your affairs.

but having again seen the
thing mentioned I send
this on the chance that it
may be useful if not it
can easily go into the waste
paper basket.

It appears to me if the
horseshoes break it must
be from weakness at a
point. I presume this is in
some part of the bend.

The actual measured strength
of the horseshoes may be little
but small as it is there is a
weakness in a part as proved

by their breaking.

Paper as usually made has a grain like the warp of a cloth (war is defined but still in a similar manner) consequently when bent into horseshoe form there is a greater strain upon one part than another.

Hand made paper has not the warp (if I may so call it) so prominently defined because of the difference in the way the maker shakes

it to what the Machine does. it is therefore stronger in every direction than machine made paper. By making paper by hand it is possible to make it thin and by depositing one sheet on another as they are made I think two or more sheets could be consolidated as and into one sheet thereby gaining strength by reason of the fibres being in all directions through the bulk in a different degree to what they would be in one sheet made in the ordinary way of the same substance as the two or more sheets

LONDON WORKS.

Hitcham Road, S.E.

Dec 14 1881

2

Also a sheet thus made
in Veneers would be much
stronger than one sheet
made solid. Consequently
it would look as if in any
stage to which two sheets
the one veneered the other solid
could be reduced the former
would always have the advantage
in strength.

If this has not occurred
to you it may be worth trying
and if you should try it I hope
it will assist you towards
a successful result to your
efforts.

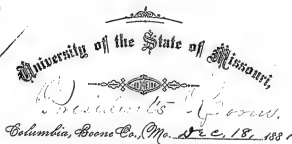
Please accept this even
if useless to you in the spirit
in which it is offered.

Yours faithfully

J. Penn

I beg to thank you for your
 favour of 14th inst. During
 my experimenting I used hand
 made paper which I found
 very much superior to machine
 made paper. I at last decided
 upon using bamboo fibre which
 I found after experimenting on
 thousands of ~~m~~ of different material
 to be the best suited to my purpose.
 My lamps now last upwards of
 800 hours as an average while
 I have had them last as long
 as 2000 hours. The destruction of
 the fibre is due to an electrical
 action going on at all times.
 Thanking you for your kindness,
 I am, Sir, Yours truly,
 J. H. P.

SAMUEL SPAIN, LAW, J. D.
President and Prof. of Jurisprudence.
JOSEPH G. WOODWARD, J. D.
Prof. of History and Political Economy.
JOSEPH F. FOSTER, J. D.
Prof. of Natural Philosophy.
GEO. C. SWALLOW, J. D.
Prof. of Natural Philosophy.
PAUL C. FOSTER, J. D.
Prof. of Chemistry.
HON. PHILEAS BROWN, J. D.
Prof. of Law.
HON. BOYCE GORDON, J. D.
Prof. of Law.
ANDREW McALESTER, M. D.
Prof. of Surgery.
WM. A. CATHCOTE, M. D.
Prof. of Anatomy.
S. M. TRACY, M. D.
Prof. of Physiology.
M. M. FISHER, D. D.
Prof. of Mathematics.
THOMAS J. LOWRY, C. D.
Prof. of Engineering and Surveying.



DAVID R. McANALLY, Jr., A. M.
Prof. of English.
MISS GRACE C. BIRD
Prof. of Natural Philosophy.
JOHN H. DUNNAN, M. D.
Prof. of Physiology and Medical Jurisprudence.
WOODSON NOSS, M. D.
Prof. of Anatomy.
A. F. FLEET, A. M.
Prof. of Chemistry and Comparative Pathology.
JAMES SHANNON BLACKWELL
Ph. D.
Prof. of Natural History and Botany.
GEO. HUBBARD, M. D.
Prof. of Physiology and Pathology.
LIEUT. FRANK F. HARRIS, L. D.
Prof. of Military Science and Tactics.
CONRAD DREIER, M. D.
Prof. of Anatomy.
H. F. THOMAS, Ph. D.
Prof. of Natural History.
MRS. O. A. CARR, Lady Principal.
J. H. DRUMMOND, A. B.
Professor of French.

Mr. Thomas A. Edison, Ph. D.,
Menlo Park,
N. Jersey.

My dear Sir:- My Colleague Prof. Thomas, Ph. D., (of Stephens Inst., Woburn) is desirous of providing his department of Physics with apparatus which will enable him to set forth the subject of electric lighting for the benefit of our University Community. He is a very accomplished man who has great respect for your work. He will highly appreciate any assistance you may be able to give him in the direction indicated. If he gets matters in good shape, he will reflect the experiments before our next Legislature. But our University is the center from which we work outward. Wish you would place in our University a memento of your name.

I had hoped that you would visit us and I would be glad to entertain you at my house. My wife often speaks of you & says she thought you were a handsome boy.

Very respectfully,
J. S. Law

Answered to
St. Louis

Miscellaneous
MASSACHUSETTS INSTITUTE
OF TECHNOLOGY

Mass
Boston, Dec. 20 1881

Mr. Thos. A. Edison,

My dear Sir -

I am very
desirous of procuring some speci-
mens of the carbon filaments used
in your incandescent lamps both
before & after carbonization. I
have several of the lamps them-
selves, but it would aid me greatly
in my lectures & my students if I
could show them more of the
process by which they are made.
If you could favor me with some
specimens I should be very greatly

obliged.

Can you inform me as to
what are the electro-mechanical
parts & resistance of your dynamo-
machines: say of the footlamps used
at 65 Fifth Avenue? Also the
resistance of the circuit in which
they are to be placed.

Any information that you
can give will be a favor.

Yours very truly
Chas. A. Rice

4 6
12 14

[TO EDWARD H. JOHNSON?]

THE EDISON LAMP CO.,

Thos. A. Edison,
Chief Engineer,
Franklin R. Upton,
Edward H. Johnson.

(see 285)

Menlo Park, N. J., _____ 188

Translati from
Go British Museum & News
Ciments Eighteen Seventy four
Pacinnali article in Shunt
Dynamo, Get Journal Chemical
Society February Eighty article
by Proctor in Swan Lamp.
Will ^{Cable} ~~man~~ estimates cost Monday

Fifty seven
London

Detail - Important

Will you please go today down to the other factory where they Carbonize and see if the furnace they are using is sufficient to produce the requisite heat for Making the dense paper loops. Mr Upton will show you a Mold with a hole in the bottom that was made to pass gas through. See if you can use this, I should like very much for you to start the young man in charge of Carbonizing in such a way that he will have no difficulty in making all them that is wanted - We should have 1 or 2 thousand immediately.

TA Edison

T. A. EDISON,

Menlo Park, N. J.,

1880.

T. A. EDISON,

Edison Electric Co.

Menlo

~~Howell~~
Memoranda by T. A. E.
1880.

Organization of Offices
60, 5- Ave.

DESCRIPTION of Dr. A. Pacinotti's Electro-
Magnetic Machine, from

"Il Nuovo Cimento," June 1864, Vol. XIX.

-----XOX-----

Translated by Henry Wilson, Assistant Librarian
and Translator, British Museum, London, W. C.

See note at end.

In 1860 I had occasion to have constructed at the expense of the Cabinet of Technological Physics of the University of Pisa a small model of an electro-magnetic machine devised by me, and which I now intend to describe with the special object of inviting attention to a particular sort of electro-magnet employed in its construction, which, besides being a novelty, seems to me adapted to afford more regularity and constancy of action in such electro-magnetic machines at the same time that its form appears to me convenient for collecting the sum of the induced currents in an electro-magnetic machine.

In the ordinary electro-magnets, even when fitted with a commutator, the magnetic poles usually appear in the same positions, whilst by using the commutator which is joined to the electro-magnet which I am about to describe, the poles are moveable in the iron subjected to magnetization.

2.

The form of the iron in such an electro-magnet is that of a circular ring. In order to conceive the motion and mode of action of the magnetizing current, let us suppose that round our iron ring is π wound a copper wire covered with silk, and when the first spiral is complete, that instead of continuing the spiral upon the wire already wound, the wire is closed by soldering the two ends together, thus covering the iron with a closed insulated spiral with a single direction.

Now if we establish communication between the two poles of a battery, and two points, at some distance from each other, in the wire of this spiral, the current bifurcates and runs along the wire in opposite directions from the point of communication, and the directions which it assumes are such that the iron when magnetized has its poles where the electrodes join the spiral.

The right line between these poles may be regarded as the magnetic axis, which may, by changing the points where connection is made with the battery, be made to assume any position transverse to the figure or circle of iron of the electro-magnet, which I would here call transversal electro-magnet. The two portions of the magnet on either side of the right line (in our machine it is the diameter) between the points of communication with the electrodes from the battery may be considered as two electro-magnets placed opposite each other, with the same poles face to face.

2.

To construct upon this principle the electro-magnet with which I have mounted the electro-magnetic machine, I took a ring of iron, turned (in the lathe,) having, like a cog-wheel sixteen equal teeth, as outlined in fig. 1a of the plate. This ring is sustained by four spokes of brass aaa(fig.4) which unite it to the axle of the machine. Upon the teeth of this iron wheel are small triangular prisms m (fig. 1 e 4) of wood and in the intervals between them is wound the insulated wire thus making so many spirals or electro-dynamic coils well insulated. In all these coils some of which are lettered r (fig. 3,4) the wire is wound in the same direction and in each of them makes nine rounds.

Any two consecutive coils, for instance r r are separated by the iron tooth of the wheel and the piece or triangular prism of wood m m (fig. 1,3,4,) In passing from one coil (or reel) to the construction of the next I left a length of the wire free attaching it to the piece of wood m, which separates the two coils. I carried these lengths of wire, one end of which constituted the terminal of one coil, and the other the beginning of the next, down upon the axle M M (fig. 3) to which is attached the wheel above described, passing them through ^{suitable} holes bored in a wooden collar fitted to the same axle, and then attaching each to the commutator c (fig. 3) which again has the same axle, ~~and then attaching each to the commutator~~

This commutator consists in a low cylinder of box-wood hav-

4.

ing two series of notches round the extremity of the cylindrical surface into which are inlaid sixteen pieces of brass, eight at the superior and as many at the inferior edge, the former alternating with the latter, all concentric with the wooden cylinder, slightly projecting and separated from each other by the substance of the wood. In the figure 6 of the commutator the pieces of brass are indicated by the shaded spaces. Each of these pieces of brass is soldered to the corresponding length of wire which couples two coils. In this way all the coils communicate with each other, each being joined to the one immediately after it by a conductor of which one of the brass pieces of the commutator forms part, and hence by making contact between two of these and the poles of a pile by means of two small metal wheels kk (fig. 3,4,) the current bifurcates and runs along the coil on each side of the points from which the lengths are left which are joined to the two communicating pieces, and the magnetic poles manifest themselves in the iron of the circle in N. S.

These poles N. S. are acted on by the poles of a forked electro-magnet A. B., which determine the rotation of the transversal electro-magnet about its axis M. M; since in even when this is in motion the poles are always produced in the usual positions N. S. which correspond to the communications with the pile.

This electro-magnet fixed as shown in figures 3 and 4 is com-

See p. 6.

6.

posed of two cylinders of iron A B
~~continuous & induced current of constant direction which upon the~~
~~application of a compass exhibited a distinct intensity, even~~
~~after having traversed cupric sulphate or water acidulated with~~
~~6-6~~ Although it appears that the second method is united by

a cross piece F F of iron to which one is permanently screwed,
and the other attached by a screw underneath G which permits it
to slide along a groove, so that the poles of the cylinder A B
may be adjusted nearer or farther from the teeth of the wheel.

The electric current from the pile entering by the electrode
h passes by a wire to the communication l and thence to the
small wheel k circulates through all the coils of the (large)
wheel, and returns through the communication l which by another
copper wire sends it through the coil which surrounds the cylinder A. Issuing again from this it passes to the coil upon the
cylinder B, and is conveyed by another wire to the second electrode
h'.

I found great advantage was gained by joining to the two
poles of the forked electro-magnet two armatures of soft iron
AAA, BBB, each of which embraces more than a third of the circle
round the wheel which constitutes the transversal electro-magnet.

These armatures were placed pretty close to the teeth of the
wheel, and united by brass guides EF, EF, as is seen in the
horizontal projection (fig. 4.) These armatures are omitted in
the vertical projection (fig. 3) of the machine because they

would have inconveniently concealed the coils and teeth of the wheel. The machine acts even when the current passes only through the circular electro-magnet, but has much less strength than when the current passes through the forked electro-magnet.

I made some experiments, taking into account the mechanical work which the machine produced, and of the corresponding consumption of the pile.

In these experiments the following method was observed.

The spindle of the electro-magnetic machine bore a reel or small drum (QQ, (fig. 3) around which was thrown an (endless) cord which was also stretched round a wheel of considerable size, compelling the latter to revolve when the electro-magnetic machine was in motion. The axle of this wheel was horizontal, and round it was wound a cord which raised a weight. At one extremity of the horizontal axle of the windlass was a break the pressure of which was so adjusted that the weight to be raised was sufficient to put the whole apparatus including the electro-magnetic machine, without the current, in a state proximate to that of motion, owing to this arrangement when the machine acts, the mechanical work expended in overcoming friction is equal to that employed in raising the ~~wie~~ weight, and to obtain the total labor performed by the electro-magnetic machine, it was only necessary to double that obtained by multiplying the weight attached by the distance it was raised.

8.

Having thus estimated the mechanical work effected, in order to ascertain the amount of consumption required by the pile performing such work, a cupric sulphate voltameter was included in the circuit of the current, the copper plates being weighed before and after the experiment.

I will give the figures obtained in one of these trials with the transversal-electro-magnet machine. This machine which had a wheel of ⁴³ Centimetre's diameter was moved by a Bunsen Battery consisting of four small elements, and raised a weight of 3^k, 2812 a distance of 8^m, 66, the friction being subtracted: thus mechanical work was done to the amount of 28^{76m}, 415.

The positive copper of the voltameter ~~a~~ lost ~~gm~~, 224 weight, the negative gained ~~gm~~, 235, so that the mean chemical work in the voltameter may be regarded as ~~g~~, 229. This number multiplied by the proportion of the equivalent of the zinc to that of the copper, and by the number of elements in the battery gives ~~g~~, 951 as the weight of the zinc consumed. Hence in order to produce a kilogram-metre of mechanical work 33 milligrams of zinc were consumed by the battery. In another trial conducted with 5 elements the consumption was 36 milligrams for every kilogram. These results if they do not prove the new model notably superior in form to other electro-magnetic machines, still do not seem to me bad, when I reflect when it has faults of construction which are not found in other machines of the same kind. One of these defects

which should be noted is that the commutator is formed of brass and is not well centred on the axle so that the contacts are not always sufficiently complete. I was induced to construct the electro-magnetic machine upon the system described by the following reasons: 1st, In the arrangement adopted the current never ceases to circulate in the coils, and the machine is not kept in motion by a series of impulses succeeding each other more or less rapidly, but by a couple of forces acting continuously. 2nd, the circular construction of the rotating magnet contributes together with the preceding mode of successive (successive) magnetization to give regularity of movement, a minimum loss of actual power in shocks or in friction. 3rd, In this it is not sought to effect instantaneous magnetization and demagnetization of the iron of the electro-magnets, a course to which obstacles are offered by the extra-currents and the compulsive force of which the iron can never be completely divested; but what is sought is only, that, every portion of the iron of the transversal electro-magnet subjected to the suitable electro-dynamic forces should pass successively through the various degrees of magnetization. 4th, And the extended armatures of the fixed electro-magnet continue their action upon a considerable number of the teeth of the magnetic wheel and do not cease to act while any magnetism remains in them.

5th, While the number of the sparks is increased their intensity is much diminished, since there are no strong extra-currents due to the rupture of the circuit which is able to remain constant.

ly closed, and while the machine is in action only an induced current continues flowing in a direction opposite to that of the current from the battery. The value of the form here described may, as appears to me, be increased by the facility it affords of transforming the machine from an electro-magnetic into a magneto-electric machine with continuous current. If instead of the electro-magnet AB (fig.3,4) there were substituted a permanent magnet, and if the transversal electro-magnet were made to rotate, we should have, in fact, a magneto-electric machine which would give a continuous induced current constant in direction. In order to find the most suitable position for the contact-makers upon the commutator where the induced current is received, we observe that by the influence exerted upon the moveable electro-magnet the opposite poles assume their positions at the extremities of a diameter and before the poles of the fixed magnet. These poles NS maintain a permanent position even when the transversal electro-magnet rotates upon its axle, hence with respect to the magnetism, and consequently also to the induced currents, we may consider (or suppose) the coils of copper wire wound round the circular magnet as revolving and the magnet itself as stationary.

To investigate the induced currents which are developed upon these coils let us examine one of them in the various positions it can assume. From the pole N (fig.2) in the direction of the pole S: here is developed which flows in one direction until it reaches the mean point a after which it immediately

1017 H.

~~posed of two cylinders of iron A, B.~~ assumes an inverse direction.

Then proceeding from S towards N the currents maintain the same direction they followed between a and S, until they reach the mean point b, from b onward the direction is again inverted, and is the same as that from N to a. Now as all the coils communicate with each other, the electro-motive forces acting in a given direction will be cumulative and will give to the total current the disposition (disposizione) shown by the arrows in figure 2, and in order to collect it the most convenient positions for the contact makers will be a, b; that is the contact-makers on the commutator are placed at right angles to the line of magnetism, (i.e. Magnetic axis) of the electro-magnet.

The induced \pm current varies its direction changing the direction of rotation, and as to the commutator, when the contact-makers are in the diameter which corresponds with the line of magnetism, although the electro-magnet may be rotating, they do not collect any current. From this position by placing them above one side a direct current is obtained contrary in direction to that which would be obtained by placing them upon the other.

In order to develop an induced current from the machine thus constructed, I placed the two opposite poles of two permanent magnets near the magnetic wheel, or magnetised with a current the forked electro-magnet already there, and compelled the transversal electro-magnet to gyrate. By both methods I obtained a

11.

continuous induced current of constant direction which upon the application of a compass exhibited a distinct intensity, even after having traversed cupric sulphate or water acidulated with SO_3 .

Although it appears that the second method is inconvenient, yet it is easy to replace the temporary magnet APFB by a permanent one, and then the magneto-electric machine which results will possess the advantage of giving induced currents, cumulative (sommate) and all of the same direction, without need of mechanical appliances to separate them from other contrary ones, or to render their direction common.

And the present model well shows how the electroemagnetic is opposed to the magneto-electric machine, since in the first the electric current circulating through the coils r introduced by the electrodes 11' the motion of the wheel and its mechanical work is obtained, and in the second by the employment of mechanical force to rotate the wheel there is obtained by means of a permanent magnet a current which circulates through the coils and goes to the electrodes 11' in order to be applied to whatever it is desired to act upon.

Note of the Translator.

The above translation would have been made more readable had not the time allowed for its execution been so extremely limited. It should be remembered that no books are allowed to be taken from the Museum premises, and that their use is therefore restricted to the hours during which that establishment is open.

The preceding translation will however be found accurate in essentials, and is for the most part closely literal. It may be noted that the word axle is used by the translator to denote a spindle or real mechanical axis, and axis to indicate the imaginary straight line between two poles, or an imaginary axle.

H. Wilson.

1881. Electric Light - Edison Company for Isolated Lighting (D-81-021)

This folder contains correspondence and other documents relating to the business of the Edison Company for Isolated Lighting. This company was organized in New York in November 1881 for the purpose of selling and installing small power plants for the lighting of single buildings. In addition to correspondence, there is a circular announcing the formation of the company and the availability of its stock to investors.

Approximately 40 percent of the documents have been filmed. The following categories of documents have not been filmed: form letters relating to stock subscriptions; routine notices for meetings of the board of directors.

Spencer, Tongue & Co.
Builders & Decorators,
70 Broadway & 15 New Street,
New York City.

BRANCH OFFICES
CONDUCTED BY FRANK WOOD
PHILADELPHIA,
ALBANY,
SARATOGA.

Oct 10th

Mrs Insull

Dear Sir

Mr Graves says you
have some new arrangements i.e.
Isolated C. or something by which
you can arrange to light my
office should I so desire
I wish you would give me some
idea of what the expense of
so doing would be -

How is the Ill. C. getting on
& what are the prospects
How is Stock quoted I guess
I will kill, as there seems to
be little chance of anything
coming out of it very soon

Amundsen Eight

Oct. 10. 81

Spencer Tracy

I am getting tired of waiting -
Let me hear from you
Yours truly
Bruce Tracy

The Edison Electric Illuminating
Company of New York
65 Fifth Avenue

New York Oct 10 1881

Mr Inceull

D^r Sir

Mr Hender the decorator, and
our special friend in the Vanderbilt-
house spoke to me again Saturday
about his Electric Light. He wants
but one or two lamps and to use
only one at a time. Can we
let him have the lamps and how
many cells of Gravity Battery will
be sufficient to make the light
for one lamp. Will you please ask
W.E if we can do it.

Yours truly W. H. Wright

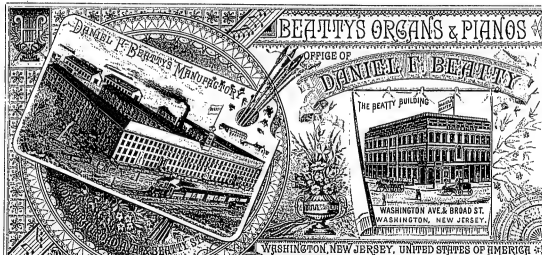
American Lights
Oct 10. 81
Knight asks
Lamps for Hander

Oct 10. 81

Knight. 22 No

Lamps for Hardin

A collection of handwritten cursive letters and symbols, including 'v', 'w', 'x', 'y', 'z', 'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', and various punctuation marks like commas, periods, and exclamation points.



October 25 1881

Mr. Thomas A. Edison

Menlo Park N.J.

Friend Edison:- The Hon Daniel F Beatty, whose private secretary I have now the honor to be, has located here, (as you may be aware) the largest cabinet Organ factory in the world, Over 1200 instruments are made each month, and as he deals with the people direct his trade is with the entire world, His factory was totally destroyed by fire in Sept and is now nearly rebuilt as shown at the top of this letter head In consequence of the stoppage he is nearly 3000 behind orders and to recover the lost ground will have to work nights, He is about to purchase two dynamo machines and having seen your light is rather disposed to adopt it,

I write to post you on the circumstances of the case and ask you to drop a word to the Co. in favor of offering Mr Beatty

Very Truly Yours
Do you know of any one that wishes to purchase a Piano or an Organ, if so please send me their Name and Address and oblige,

Daniel F. Beatty

BEATTY'S
ARE THE
BEST

BEATTY'S
AND THE
BEST

BEATTY'S
AND THE
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BEATTY'S
AND THE
BEST

DANIEL T. BEATTY'S MANUFACTURING CO.

BEATTY'S ORGANS & PIANOS

OFFICE OF DANIEL T. BEATTY

THE BEATTY BUILDING

WASHINGTON AVE. & BROAD ST.
WASHINGTON, NEW JERSEY.

WASHINGTON, NEW JERSEY, UNITED STATES OF AMERICA

BEATTY'S ARE THE BEST

ACCORDION AND DIA APPEAL

LOOK UP BEATTY'S COTTLES, COLUMBIA

108 DE BEATTY SON LOS ANGELES

BEATTY'S SON ANGLON

BEATTY'S PIANO BEATTY'S SON OF COLUMBIA

BEATTY'S TO JYD

BEATTY'S 家

Inducements towards putting

in your system. It will certainly be

of great advantage to the Co and you,

as Mr. Beatty is the best advertising

man in the country (Excepting T. A. E.)

and his using the system will lead to

other sales. I have done what I

can for it as you have always

been kind to me, and, besides - I

am fully convinced that your lamp

is the best yet.

Trusting that you will give this all

the consideration within your province.

I am very respectfully,

Charles H. Deane,

Arthur Eric Diagram, Etc.

The U.S. Light Co offer the deduction

Do you know of any one that wishes to purchase a Piano or an Organ, if so please send me their Name and Address and oblige,

Daniel Beatty

American Spirit
Oct 20

Harro Brant

My Letter of 25th
Act has been
before the officers
of Co. not prepared
to reduce prices
Demand is now
greater than we are
able to fulfill

WILLIAM B. BRANT
JANUARY 2, 1862

To be laid on top of it

It is thinking of using
the electric light for this pur-
pose, and wishes to get some-
thing that will not be too
expensive.

How would one or two
of your incandescient lamps
for household purposes do?

And as it would be
very unhandy & expensive
to use a dynamo-electric
machine for this electricity, for
the short time that we would
need it. Would it not be cheaper
to erect an acid battery?

Would you kindly give
me your opinion as to what
would be the best and most
economical ^{way} to do what we
wish, and your price for the
apparatus.

Yours Truly,
Jas. A. Ball

The Edison Electric Light Company,
65 Fifth Avenue.

New York, November 11th, 1881.

CIRCULAR.

The large demand for apparatus for lighting separate buildings, such as factories, machine shops, public buildings, summer hotels, &c., has made it necessary to provide a special capital for conducting this class of business.

It has therefore been determined to organize a new Company to be licensed by this Company to operate in all territory in the United States, outside of present gas limits, and within such limits in such special cases as may be approved from time to time by this Company.

The capital stock of the new Company has been fixed at 5,000 shares of \$100. each, of which 2,510 shares (\$251,000) are to be issued to this Company in payment for the license, and 2,490 shares (\$249,000) to be reserved to provide the cash capital required. 2,400 shares of such reserved stock are now offered for subscription at par.

Books of subscription to the capital stock of the new Company will be opened at this office, on Monday the 14th of November inst., and remain open until Monday 21st inst. at 3 o'clock P. M.

Preference will be given to subscriptions received from stockholders of the Edison Electric Light Company to the extent of the pro rata share of each according to the stock standing in their names on the books of the Company at the closing thereof on the 10th inst., pursuant to notice heretofore given, (viz one share of the new Company's stock to every two shares of Light Company's stock.) As no subscriptions can be received for fractional parts of a share, persons entitled to fractions may subscribe for the number of full shares next above or next below the fractional amounts to which an exact pro rata distribution would entitle them. All stock not subscribed by the Light Company's stockholders will be allotted, immediately after the closing of the books of subscription, to other subscribers, in proportion to the number of shares subscribed by each.

Subscriptions may be made at the office of the Edison Electric Light Company 65 Fifth Avenue, New York, or by filling up and transmitting to the undersigned the accompanying form, together with a cheque for five per cent. (\$5 per share) on the number of shares subscribed.

A deposit of \$5 per share will be required with all subscriptions and a further payment of \$10 per share on allotment, the remainder will be payable in such installments and at such times as may be called for by the Board of Directors of the new Company.

By order,

C. GODDARD,
Secretary.

My New ^{American Rights} M. S.

Dear Edinmiff

Mr C. W. ^(Gore) has
recd the circular
about Isolates & he
wants me to tell
him what to do.

Please call here before
12 M Monday, & after
confering with you
I may want advise
him to take more
than his share
The circular is
evidently drawn
with the hope that

the stockholders
will not subscribe
& certain parties
can grab the
balance.

How rapidly is the
money to be called?
Do you subscribe
for your entire
share?

Wm. J. Schiff

Mr. Edison,

File
The application of Col. Logan and Major McLaughlin
for the Isolated business in California is just received by me.

I will bring it up at the next meeting.

We have organized the Isolated Company as follows, viz.

President, Eaton; Vice President not to be filled at present;

Treasurer, Fabbri; Secy., Goddard; Ex. Com. Banker, Fabbri and

Eaton (when Mr. Lowrey comes I will resign from the Ex. Com. if he

wishes it. I would still be a member ex-officio.) Mr. Tracy Edson

resigned as a Director and on recommendation of Mr. Adams and Mr.

Banker his vacancy was filled by the election of Mr. John M. Flagler.

My compensation for acting as President of the company was fixed

as follows, namely, a call was given me for one year at par on

the stock left in the treasury, which will be about eighty shares

of stock. How does this last matter suit you? I do not care much

about it as I had about as soon work for nothing and take my

chances by and by as accept a call like that. It was Banker's

suggestion. However, it went on the minutes of the meeting and

I am willing to let it stand.

S. R. Eaton

November 23rd. 1881.

per No. 6.

Amesbury Light
Nov. 26. 81.

Spring Valley Mining & Irrigating Company.

Location of Mine, Cherokee Butte Co.

Respectfully,
Edison

Cherokee, Nov. 26. 1881.

My Dear Mr. Edison

Col Logan returned from New York last week and brought me the letter from you concerning Electric light business. I esteem myself very fortunate to be joined by Col Logan in the enterprise, - as it will relieve me of almost the entire care, - make the venture an unquestioned success from the outset - and be inaugurated with far more favorable terms to the promoters than I could hope to make. At the same time I feel how much I am indebted to you for your kindly interest, which although it would, under any circumstances, have been sacredly considered by both the Major and Jimmy, of course, would not have been by other parties.

The Major, as you are probably aware was already an equal partner with me in the matter, though he was, and will be, so constantly occupied he could not have given it much personal attention. My brother-in-law, Satim, (Capt Goldstock) - Telephone

and messenger systems of S.F.) was also associated with me,
and he and I proposed to work the enterprise together.

He will now assist Jimmy and I will divide my interest
with him. — I had selected and seen Alford, Preset

Bank Cal^a, J.C. Perkins, present Gov of State, and of large
S.F. shipping firm — Bartlett Doc, heavy real estate owner worth about
five million dollars and J.H. Shepard of Judson Shepard —
all of whom I think are known to Major — and they all
agreed to become applicants — I was only in San Fran
one day and thought it best to wait until ~~some~~ I
got the form of application from Mr Insull, before com-
pleting the list, which I proposed to make about ten
— Jimmy will take these, or select others, as cir-
cumstances may shape themselves in his negotiation.

H. (Logan) is a shrewd, keen business man of great
suavity and most ingratiating manners and will
accomplish all he undertakes. — By the
by — I fell into a hornet's nest in San Fran! walked into
a gas company den, unexpectedly — I went to Friedman
who is a man of great wealth and influence in San —
and one of my oldest & best friends. I found he had
gone largely into a new gas company, now starting,
and was entirely skeptical about your light — I
represented to him all you were doing in New York, the
magnitude of your work, and what you ^{had} told me!

Spring Valley Mining & Irrigating Company.

Location of Mine, Cherokee Butte Co.

*Right Atty. Genl.
Louis Glass, Secy.*

Cherokee, _____ 1888.

— And it rather staggered the old man! He requested me to go with him and see Martin, the promulgator of the new gas-co, which I declined to do; but he so reasoned and insisted that I could not refuse without striking my colors in a crowd, so to Martins we went. That gentleman proved to be a smooth, conceited fellow, with the assumption of the devil — He immediately informed me that he knew you intimately; had gone to your establishment with an Electrical Engineer to examine your system, while you were at Mendocino, having an unlimited amount of money to invest, in case he should be satisfied of the ultimate success of your invention; that you ~~treated him~~ ^{had treated} him with the greatest courtesy, extending him every facility for examination; and himself and engineer had determined, that it was simply impossible with your system to ever compete with gas, or in fact to make a successful or economical light by the incandescence plan; — that the present agitation was solely for stock purposes, and he sincerely and patronizingly advised me to drop the whole project.

What do you think of that? - It made me hot! and I simply asked him whether he did not think, he might have been hasty or premature in his examination, whether he or his engineer had gone sufficiently deep into the problems, or had such prior knowledge as would enable them to form for themselves or others so sweeping a judgement! - Then we had it! I told him I had no figures from you beyond the mere statement that you could produce a cheaper light than Gas - and quoted Sawyer at him - I expected he would class Mr S. as a mountebank, but strange to say he did not seem to know of him, and I offered to produce my published authority from a man not friendly to you, against his mere assumptions - We had a warm conference, with the most positive statements completely at variance on each side - and an armed neutrality at the close - Do you know the man? - He told me among other things he could manufacture Gas at fifty cents - a thousand feet in San Francisco - has a new process, obtaining forty five thousand feet from a cord of wood, rivaling it more quantity with crude petroleum. He has actually bought, to San Fran, from Paris, three millions of dollars, and is an aggressive fellow, of whom I think you will hear farther as Jimmy progresses with his work - I am greatly mistaken, however, if he is not in some way a fraud - though Judson told me, of his knowledge, he really had letters of credit for the sum I have named - Remember me kindly to Major & Mr Drayton

truly yours
Louis Glass.

1881. Electric Light - Edison Electric Illuminating Company of New York (D-81-022)

This folder contains correspondence, agreements, and other documents relating to the operation of the Edison Electric Illuminating Company of New York. Formed in December 1880 to build generating stations in New York City, the company constructed the Pearl Street central station, which began operation on September 4, 1882. Included is an agreement with the Edison Electric Light Company and a draft of an ordinance allowing the company to lay underground conductors in New York City. There is also a prospectus for the United States Underground Cable Company.

Approximately 80 percent of the documents have been filmed. The following categories of documents have not been filmed: routine notices for meetings of the board of directors; duplicate copies of correspondence.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS AND DELIVERS messages only on condition, limiting its liability, that the sender shall be responsible for the accuracy of the message, and the company will not hold itself liable for error or delay in transmission or delivery of the message.

This message is an UNREPEATED MESSAGE and is delivered by request of the sender, under the following terms and conditions.

A. B. BREWER, Secy. OFF. MORVIN GREEN, President.

Date May 5 1881

Received at 791 BROADWAY

of Edison

65 save

From Llandudno to

Edison hundred fifty

five shares at the rate

you ask as you

think best batchellor

Phillips

16 P. M.

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

America 10

Light

may 5th

Batchelors

Cable 40

Illum Stock

MATTERS NECESSARY TO BE DONE, JULY 20, 1911.

Accurate determination of feeders by Claudius. CLARKE.

Map complete for Kruesi to lay wires. KRUESI, CLAUDIUS, CLARKE.

Arrangement with contractors and Kruesi for
laying mains. } HODDARD.

Arrangement at Central Station for continuous
testing. } CLARKE.

Risks on iron work; on mason work; on car-
penter work. EATON, HORNIG, CLARKE.

Supplies of tubing, boxes, mains from tube factory. EATON.

Getting station and preparing internal structure. CLARKE, HORNIG.

Arrangement with Babcock & Wilcox relative
to boilers, prices etc. } EATON.

Motor-room at Central Station. HORNIG.

Appliances there. CLARKE.

Books for meter tests, records, consumption
blanks for meters.

GODDARD, EATON.

Regular books for doing business at Station. EATON, GODDARD.

Arrangement of staff for operating station. CLARKE, EDISON.

Water, Eaton. Driven wells.

EATON, HORNIG, CLARKE.

Coal supply, information, data, place of storage. EATON.

Contract for meters.

EATON.

Moving Greenfield's room to Central Station. EATON, HORNIG, CLARKE.

Meters. - - - - - CLARKE, EATON, EDISON.

Appliances to utilize the present gas chandeliers and
fixtures.

JOHNSON, EATON.

Storage room at station for lamps, waste oil, etc.

The Edison Electric Illuminating
Company of New York
65 Fifth Avenue

New York! Aug. 19th 1886.
John F. Randolph, Esq.
Menlo Park.

Dear Sir!

A set of grate-bars were ordered
by consent of Mr. T. A. Edison to give
a trial to the Jarvis Setting.

Mr. C. A. Berton Agt for Jarvis Setting
422 E. 23^d St. New York attended to it,
the bars will suit for dust coal and were
to suit dimensions of the Menlo Park Boiler.
No further progress was made to go further
with test of Jarvis Boiler setting, they
are entitled to get pay for the grate-bars.

Yours Very truly

Julius E. Hornig.

The Edison Electric Illuminating Co. of New York.

65 Fifth Avenue.

NEW YORK, Oct. 1st, 1881.

Dear Sir:

We beg to request that, hereafter, you will execute no orders for account of this Company either for labor or material, except upon requisition bearing the written approval of the Vice-President or Secretary. From and after this date, no bills will be paid except for work done or material furnished in pursuance of such requisitions.

All deliveries of goods must be accompanied by invoices *in duplicate* with the requisition attached thereto, except where deliveries are in instalments, in which case duplicate invoices of each delivery must be sent with the goods, with a memorandum thereon of the number of the requisition and the Department of the Company from which it emanates, the requisition being attached to the invoice sent with the delivery which completes the order.

Very respectfully,

THE EDISON ELECTRIC ILLUMINATING CO. OF N. Y.

C. Goodwin Day

THE EDISON ELECTRIC ILLUMINATING CO. OF NEW YORK
15 FIFTH AVENUE

New York, 188

Dear Sir:

A Special meeting
of the Board of Directors of the Edison Electric Illuminating
Company of New York, will be held at the office of
Messrs. Morgan & Co. on Friday
the 7 day of October 188, at
o'clock P.M.

By order

W. H. Wood
J.

Secretary.

*The Edison Electric Illuminating
Company of New York
65 Fifth Avenue*

New York, October 6, 1881

Thomas A Edison Esq

*65.5 Ave
Dear Sir*

*Strict directions have
been given, that hereafter, no orders shall be
executed for account of this Company, either
for labor or material except upon requisitions
bearing the written approval of the Vice
President or Secretary*

*You will therefore
please present all requisitions to the Secretary
daily, as far as possible before 12 o'clock, noon,
accompanied by a memorandum thereof, on
forms supplied for that purpose, to be filed in
the Secretarys Office*

Yours Truly

C. Goulden Tracy

THE EDISON ELECTRIC ILLUMINATING CO. OF NEW YORK,
43 FIFTH AVENUE.

New York, October 7 1881

Dear Sir:

An adjourned meeting
of the Board of Directors of the Edison Electric Illuminating
Company of New York, will be held at the office of
Drexel Morgan & Co on Monday
the 10 day of October 1881 at
n'clock ³/₄ M.

By order

C. Goddard
J

Secretary.

The Edison Electric Illuminating Co. of New York.

65 FIFTH AVENUE.

New York, October 12th, 1881.

*An instalment of ten per cent. on the subscriptions to
the capital stock of this Company has been called, payable
on or before the 22nd inst.*

*Please send cheque to order of "The Edison Electric
Illuminating Company of New York" accompanied by your
certificates that payment may be endorsed thereon.*

By order

C. GODDARD,

Secretary.

The Edison Electric Illuminating Co. Light
Company of New York

Edison Building

W. L. Miller

New York, Nov. 3, 1886

My dear Edison.

I have had a talk
with Mr. Soren about the Gas
Machines that I spoke to you
about some two or three weeks
since - There are some
immediate and some future
Electric Light principles
connected with them,
and if I can get my
starting point secured I
can shape them to your
advantage - Mr. S. sees
how it may be done,
and we wish to consult

With you as to the best
way to ~~the~~ arrange for
fund &c -

If you are
down town to day let
me Mr. Sorensen.

He will send for
me at Room 14,
No. 4 Cedar St.

Or please send me
a line to above address
saying when and where
I can see you -

Respectfully yours
W. E. Miller

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS AND RECEIVES messages only on condition, limiting its liability, which have been assented to by the sender of the following message.

Messages can be carried either only by telegraph, a message made to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of messages.

This message is an URGENT message and is delivered by request of the sender under the conditions stated above.

A. J. [Signature], President.

Received at 791 BROADWAY Dec 14 1881.

By C. P. Mott

65 Save

Look in Edison desk

for Estimate cost first

Central Station it is

on four or five

sheets legal cap he

says he is sure

it is there send

it out immediately by

messenger and wire me

about it

Paul Russell

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

300d mn

READ THE NOTICE AT THE TOP.

*The Edison Electric Illuminating
Company of New York
65 Fifth Avenue*

File

New York, December 14, 1888

J. A. Edison Esq

Dear Sir

*I take pleasure in informing you
that at the annual meeting of this Company, held on the
13th inst you were duly elected a Director thereof.*

*A meeting of
the Board will be held on Friday 16th inst at the
office of Drexel Morgan & Co. at 12 o'clock
Noon, for the purpose of organization, and such
other business as may be necessary*

By order

Goodenow Esq
J.

The Edison Electric Illuminating
Company of New York
25 Fifth Avenue

92

New York Dec 25th 1881

Mrs. Hull,

Mr. Goddard desires
that you see him tomorrow
morning without fail re-
garding the settlement of
the dynamo ac. The atla-
chins works telephoned
that the bills were sent
up some days ago. Please
do not neglect this
as an immediate settlement
of the matter is important—

Yours
J. Hutchinson

The Edison Electric Illuminating Co. of New York,
65 FIFTH AVENUE.

New York, December 17th, 1881.

*An instalment of ten per cent. on the subscriptions to
the capital stock of this Company has been called, payable
on or before the 27th inst.*

*Please send cheque to order of "The Edison Electric
Illumination Company of New York" accompanied by your
certificates that payment may be endorsed thereon.*

By order

C. GODDARD,

Secretary.

Mr. Edison.

After carefully
going over the ground
I really see no satis-
factory and rapid way
of testing the street con-
ductors excepting by
bringing both ends to
the surface at the
street corners. It
will greatly hasten the
laying of the mains
because the men can
work as rapidly as
possible and the complete
testing can be made at
any time afterwards.
After the system is

in complete working order
in practice it will be
found necessary at
stated periods for an
inspector to test the
condition of each face
of every block. For this
work also it is necessary
to have access to both
cables and also to interrupt
the circuit of both at
each corner. It seems
to me that the advantages
for testing, saving of time,
allowing rapid progress
in laying, and accessibility
for inspection will far
outweigh the first cost
of such a system and
indeed will save

This Company TRANSMITS and DELIVERS messages only on condition, limiting its liability, which have been accepted by the sender of the communication transmitted. Messages can be guaranteed against only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of unrepeatable messages. This message is an UNREPEATABLE MESSAGE and is delivered by request of the sender, under the conditions named above.

A. R. BREWER, Sec'y.

4 NORVIN GREEN, President.

Dated New York 12 (10:45) 188 /

Received at Menlo Park Depot

To A. Edison

READ THE NOTICE AT THE TOP.

Hearing before board of
underwriters for United
state at the Board's rooms
Rosed Building will see
you there at twelve your
attendance important

S. B. Eaton

23 Madison
c 4:01 pm

This Company TRANSMITS and DELIVERS messages only on condition, limiting its liability, which have been accepted by the sender of the communication transmitted. Messages can be guaranteed against only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of unrepeatable messages. This message is an UNREPEATABLE MESSAGE and is delivered by request of the sender, under the conditions named above.

A. R. BREWER, Sec'y.

6 NORVIN GREEN, President.

Dated New York 14 188 /

Received at Menlo Park Depot

To A. Edison

READ THE NOTICE AT THE TOP.

My telegraph in
reference to underwriters
should have read
tomorrow

S. B. Eaton

11 collect 90
27 / 15 4:20 pm

4607
We submit the following as our idea of rule in
reference to size of wires to be used with safety
in electric lighting circuits.

"Conducting wires in all cases to be of copper
of good conductivity, and to be at least dou-
ble in weight per foot of the aggregate arm-
ature conductors of the Dynamo-Electric
Machine, with which it is connected, or to
have a cross section of not less than 1800 cir-
cular mils for each wire of current norm-
ally carried upon the circuit."

For Incandescence-Multiple-Arc lighting,
the above rule in regard to circular mils
shall apply in combination with a fuseible
or other approved safety catch or device prop-
erly located in each branch circuit.

As to rule four, regarding Globes, we would
suggest that a provision be added that will
compel users of electric lamps in buildings
where materials are highly inflammable, are
immediately below the lamps, not only to

use globes on the lamps, but to replace immediately any that may become broken or badly cracked. In some cases it might be advisable to use a wire netting to prevent globes from breaking and falling.

On regard to the other sections of your standards, we would say that we would approve of the other rules as you propose to amend them, as reported to us at our interview of the 16th inst.

Commission Eging

One unit

Running 3 days, 16 hours, 10 minutes
hours without current. 1) At 60°C
Can now run with
thirteen hundred but ~~brushes~~ brushes give trouble at times
with the excessive current ~~start stop~~
can take it off easily. Dynamometer
power factor that engine can be ~~run~~ stopped
will eradicate this bug before
shipping

Resolved, That the "Edison Electric Illuminating Company of New York" be authorized and empowered to lay tubes, wires, conductors and insulators, and to erect lamp-poles within the lines of the streets and avenues, parks and public places of the City of New York, for conveying and using electricity or electrical currents for purposes of illumination, under the following terms, conditions and restrictions, viz.:

1. The said company shall pay to the city the entire cost of restoring any street (filling in any excavation that shall be made, running down the earth as filled in, and carrying away the surplus earth) and replacing any pavement or sidewalk which shall have been disturbed by or for the purpose of the said pipes, wires, conductors and insulators, and the cost of restoring and replacing shall be done by the Department of Public Works; and in all cases where the pavements or sidewalks are to be so disturbed a permit therefor shall be obtained from the Commissioner of Public Works. Before taking out any such permit the said company shall deposit with the Chamberlain of the city a sum of money sufficient, in the opinion of the said Commissioner, to defray the entire cost of restoring the street, and replacing the pavement or sidewalk as disturbed, and maintaining it in good order and condition for the period of one year; and the certificate of the Commissioner of Public Works as to such estimated cost shall be final and conclusive, and the cost so thus certified shall be paid by the company, as above provided, before commencing the work.

2. The mains and service-pipes shall be laid under such regulations, conditions and restrictions as the Commissioner of Public Works may from time to time establish, and under such part of the roadway or sidewalk as he may prescribe; and in laying said tubes, wires, conductors and insulators the company shall not disturb or interfere with any sewers, water-pipes, gas-pipes or other pipes without first obtaining the consent of the said Commissioner. And the decision of the said Commissioner shall be final and conclusive as to any disturbance or interference with said pipes, and the said company shall pay the entire cost of any disturbance or interference with said pipes which shall have been authorized by the Commissioner of Public Works, and shall be liable for any damage or injury which may result to any sewer or pipe from any work done by or for the said company. And the said company shall, if so required to do by the Commissioner of Public Works, give a bond with sureties to be approved by the Comptroller of the city, to secure the city against any claim for damage or injury which may result to any sewer, water-pipe, gas-pipe or other pipe in consequence of any disturbance or interference by the said company, which may have been authorized by the Commissioner of Public Works, and should the said company be enjoined or interfered with by the courts, as to any disturbance or interference with any sewer, water-pipes, gas-pipes or other pipes, which may have been authorized by the said Commissioner, the city shall not be liable to the Edison Electric Illuminating Company of New York, for any delay or injury resulting to the said company from such interference or legal proceeding.

3. The Commissioner of Public Works may at any time revoke any permit in so far as any work authorized by it may not have been completed, if the regulations, conditions and restrictions prescribed for the work shall not have been fully complied with, and the said Commissioner may require the said company to make any work already done conform to such regulations, conditions and restrictions.

4. The said Commissioner may at any time refuse to grant new permits until all the conditions and requirements imposed upon the company shall have been fully complied with.

5. If at any time the Commissioner of Public Works shall direct any changes to be made in the location or arrangement of any of the said tubes, wires, conductors, insulators or lamp-poles, for the purpose of laying, altering or removing any sewer or water-pipes, or doing any other public work, such changes shall be made by the said company at their own expense, under the direction of the said Commissioner.

6. The tubes, wires, conductors and insulators of the said company shall be maintained in good order and condition, and in case of any defect in the same, such defect shall be forthwith repaired by the said company.

7. If the said company shall neglect or refuse to do any work herein provided to be done by it, or to maintain its tubes, wires, conductors and insulators in good order and condition, the Commissioner of Public Works may cause such work to be done, and the expense and cost thereof shall be paid to the city by the said company.

8. The trenches to be opened for the purposes of the said company shall not exceed a depth of eighteen inches below the pavement line; and in case the laying of any of the tubes, wires, conductors or insulators of the said company shall interfere with any vaults or other private property, the consent of the owners thereof shall be obtained by the company before laying the same, or doing any work in or through such vaults or private property.

9. Whenever, at any time, any permit shall be granted to open the streets, pavements or sidewalks, for the purpose of laying the tubes, wires, conductors and insulators of the company, a sum equal to five cents per linear foot of trench to be opened under such permit shall be paid to the city by the company; and whenever a permit is obtained to open the streets, pavements or sidewalks, for repairs to such tubes, wires, conductors or insulators, a like sum per linear foot of trench shall be paid to the city by the company.

10. Any power or duty herein prescribed to be processed, or executed by, or imposed upon any officer or department of the city government, or the Common Council, shall be possessed and exercised by such other officer, department, board or other city authority as may by law from time to time be vested with the same power or duty, or have authority or jurisdiction in relation thereto.

11. The said company shall pay to the city all damages, costs or charges for which the city may be held liable by reason of any injury or damage which may result from the laying or use of the said tubes, wires, conductors and insulators or the erection of said lamp-poles, but in no case shall the city be liable for any injury or damage to the tubes, wires, conductors and insulators laid or maintained by the said company.

12. The said company, before laying any pipes in any street or avenue, shall give a bond to the city in the penal sum of fifty thousand dollars (\$50,000) with sureties to be approved by the Comptroller of the city, that the said company will fully comply with all the terms, conditions, limitations and restrictions hereto contained; and the Comptroller of the city may from time to time require other or additional sureties to be approved by him, to be furnished by the said company, and from time to time may require bonds in such further amounts, and with sureties to be approved by him, as he may deem requisite fully to secure, without recourse to the aforesaid bonds in the sum of fifty thousand dollars, the payment of any claims which at the time when such additional bond is required, either on the part of the city against the said company, or on the part of any person or corporation against the city, for damages arising from the laying or use of the tubes, wires, conductors and insulators of the said company, or from any act, omission or neglect of the said company, its agents or employees.

13. If, within six years after the granting of this franchise, the said company shall not have constructed the apparatus, and laid the pipes and mains necessary to supply the electricity required by the houses and buildings on twenty-five miles of streets, then this grant shall cease and expire so far as any further extension of the system is concerned.

14. The term "city" as used in the foregoing conditions shall be construed to mean the Mayor, Aldermen and Commonality of the City of New York.

15. Nothing herein contained shall be deemed to authorize the laying of any mains or pipes for conveying gas, nor the erection of any lamp or lamp-post to be used for illuminating by gas.

1884

Esq.
Quinn
Professors

Resolved. That the U.S. Ill. Co of New York is hereby authorized and empowered to lay tubes, wires, conductors and insulators, and to erect lamp-posts in the streets, avenues, parks and public places in this City for the purpose of conveying, using, and supplying electricity or electrical current for purposes of illumination.

All excavations in streets, removals and replacements of pavements or side-walks to be done under and according to the direction of the Com. of Public Works and under such further conditions as to security against damage to sewers, water pipes, gas pipes or other pipes.

Whenever at any time any permit shall be granted to open the streets, pavement or sidewalk, for the purpose of laying the tubes, wires, conductors, or insulators of the Co a sum equal to one per-cent per lineal foot of streets occupied shall be paid to the City.

Nothing herein contained shall be deemed to authorize the laying of any wires or pipes for conveying, nor the erection of any lamps or lamp-posts to be used for illuminating gas.

Adopted May 3rd, 1881.

*Ed. G. L. Co.
May 3, 1881*

1881.

Resolved. That the Brush Electric Illuminating Co. of New York is hereby authorized to lay, erect and construct suitable wire or other conductors, in or over and under the streets, avenues, public parks and places of the city of New York, for conducting and distributing electricity, and to the full extent that could with the consent of the municipal authorities of the city of New York be given to any gas light Co. under or by reason of, or in pursuance of, an application made by any of the corporations specially referred to in chapter 512 of the general statutes for the year 1879. All excavations in street, removals and replacements of pavements or sidewalks to be done under and according to the direction of the Com. of Public Works and under such further conditions as to security against damage to sewers, water pipes, gas pipes or any other pipes as may be prescribed by his Honor the Mayor, Comptroller and Com. of Public Works, who are now by law authorized to make provision for lighting the streets of the city:

Whenever at any time any permit shall be granted to open the streets, pavement or sidewalk, for the purpose of laying the tubes, wires, conductors, or insulators of the Co. a sum equal to one per-cent per lineal foot of streets occupied shall be paid to the City.

Nothing herein contained shall be deemed to authorize the laying of any wires or pipes for conveying, nor the erection of any lamps or lamp-posts to be used for illuminating gas,

Adopted May 31st, 1881.

This is one of the 2000 papers in E.P. Folger's collection

(1881)

Memorandum of Agreement

made this _____ day of _____ in the year of our Lord, one thousand eight hundred and eighty one, by and between The Edison Electric Light Company, hereinafter called the Light Company, and The Edison Electric Illuminating Company of New York, hereinafter called the Illuminating Company, each being a corporation duly organized under the laws of the State of New York, Wisconsin:

Whereas the Light Company is by virtue of a certain contract with Thomas A. Edison the owner for the United States of certain valuable inventions and Letters Patent upon inventions of the said Edison for light and power; and is entitled by such contract to all the inventions of the said Edison, relating to the same subject, for the same territory, heretofore made, or which hereafter may be made by him within the period of five years from the _____ day of _____ 1881; and is desirous of contracting with responsible parties for the use of the said inventions in the manner and to the extent hereinafter provided for, in certain stations, sections or parts of the City of New York, or in the whole of said City, as may hereafter appear; and

Whereas the Illuminating Company is a corporation duly organized for the purpose of acquiring from the Light Company the right to use the said inventions of the said Edison in the City of New York, or in certain parts thereof, as aforesaid, and is capable of making contracts for the business and purposes herein set forth, and has agreed with the Light Company to enter into association with it for the purpose of promoting the introduction of the said Electric Light System owned by the Light Company in the City of New York or certain parts thereof, as hereinafter appears: it is agreed as follows.

First. The Light Company hereby gives to the Illuminating Company the sole and exclusive right to use in two certain stations, sections or parts of the City of New York, which are more particularly set forth in another part of this instrument, all the inventions and Letters Patent of Thomas A. Edison now belonging to the Light Company, or which may hereafter come into its possession within the period of five years from the _____ day of _____ 1881, under and pursuant to a certain contract heretofore executed between the Light Company and the said Edison bearing date the _____ day of _____ 1881, reference to which is herein made; and the Light Company agrees to execute and deliver to the Illuminating Company a specific and strict license, or licenses, in respect to all the Letters Patent already belonging to it, pursuant to its said contract with Thomas A. Edison, the same to be executed in the customary technical terms applicable to licenses in like cases. But such licenses shall be subject to all the conditions stated in this agreement, and shall also contain terms forbidding their assignment or transfer, it being the intention of this agreement that it shall not contain, nor shall any license which may be executed by the Light Company pursuant to this agreement contain, anything in any way whatever authorizing or empowering the Illuminating Company to grant sub-licenses, or to execute any assignment or transfer whatever of said licenses, or any part thereof.

This agreement to license as aforesaid does not include the inventions of Thomas A. Edison so far as they relate to the propulsion of railway trains or furnishing power for railway traffic, but relate only to inventions and patents for the production and general distribution of electricity for light and heat, also for power for domestic and industrial purposes.

It is further agreed that nothing herein contained shall in any wise entitle the Illuminating Company to have any interest in or direction over the use or control of the said inventions so far as they may be used for the production and distribution of electricity for light, heat and power on steam ships, sailing vessels, ferry boats and marine craft of all kinds, whether the same are registered as of New York or otherwise, the Light Company hereby reserving exclusively the right to deal with all kinds of marine craft, both in the City of New York and elsewhere, as regards the said inventions, with the same force and effect as if this agreement had never been made.

Second. The two sections, stations or parts of the City of New York referred to in the next preceding paragraph are as follows, viz: First, one station or section located in the lower part of the City of New York, bounded on the East by the East River, on the West by Nassau Street, on the North by Spruce Street, and on the South by Wall Street: and, Second, a station of about the same area as the said first station, but located in what is known as the uptown portion of the City of New York, the same to be hereafter bounded as may be agreed upon between the parties hereto. The boundary of the said first section may hereafter be modified on account of convenience or economy, or for other good reason, by and with the consent of the Light Company.

Third. Whereas the Edison System of Electric Lighting, referred to in this agreement, necessitates

Spruce Street, and on the South by Wall Street; and, Second, a station of about the same area as the said first station, but located in what is known as the uptown portion of the City of New York, the same to be hereafter bounded as may be agreed upon between the parties hereto. The boundary of the said first section may hereafter be modified on account of convenience or economy, or for other good reason, by and with the consent of the Light Company.

Third. Whereas the Edison System of Electric Lighting, referred to in this agreement, necessitates the subdividing or breaking up of the area of the City of New York into a large number of sections, or stations, to the number of about thirty-four below Seventieth Street in said City, two of which are above described; and whereas it is the intention of the Light Company to hereafter license the Illuminating Company to use the said Edison System in all of the other said sections or stations of the City, provided the Illuminating Company shall exploit or introduce the said System in said remaining sections of the City with reasonable rapidity it is agreed that the Light Company, which, under this agreement at present licenses the Illuminating Company to use the said System only in the two sections above described, will hereafter license the Illuminating Company to use the said System in all the other sections or stations in the City of New York as aforesaid, provided the Illuminating Company, if the Light Company shall so desire shall occupy and equip at least four of such stations annually, beginning October 1st, 1881, and shall introduce the said System into as full and general use in said stations as possible with due diligence, such occupation and equipment of said stations to be uniform, as regards extent of plant and appliances of all kind appertaining to the Edison System, with the plant and appliances of either or both of the first two stations above described. If the Illuminating Company shall fail or neglect to exploit the System in the remaining sections of the City as above set forth, viz: at the rate of four sections per annum, (unless such default be at the request of the Light Company), the Light Company shall have the right to license any other party or parties to occupy and equip any remaining station or stations not already fully occupied and equipped as herein provided for, and further shall have the right in all respects to treat and deal with the said additional party or parties, as regards said remaining sections, with the same force and effect as if this agreement with the Illuminating Company had never been made.

Fourth. The price to be paid by the Illuminating Company to the Light Company for the license and benefits herein mentioned has been fixed at 25 per centum of all stock issued by the Illuminating Company, of which 10 per centum shall be paid to the Light Company in cash, at the par of such stock, and 25 per centum in fully paid up stock, it being the intention of this agreement that whenever the Illuminating Company shall issue any or all of its present stock, and as fast as it shall issue the same and whenever it may hereafter increase its stock and make issue of all or any part of said increase, and as fast as it shall issue the same; that the Illuminating Company will pay to the Light Company a sum in money equal to 10 per centum of each and all of said issues, and shall also issue to the Light Company 25 per centum fully paid of cash and every issue of stock as aforesaid, to the end that for every one hundred shares of stock issued by the Illuminating Company the Light Company shall be entitled to and shall receive 25 shares of said stock fully paid, and in addition thereto, a sum of money equal to the par value of ten of said shares. Should the Illuminating Company in making issues of its stock permit payments thereon in installments instead of requiring payment in full at once, it is agreed that the Light Company shall accept its 10 per centum of cash compensation above provided for as fast as, and only as fast as, the said payments in installments shall be made, provided however, that in no event shall a subsequent issue of stock be made until the payments on all prior issues shall have been made in full, and provided further that whenever any issue of stock is made the Light Company shall promptly and without any postponement whatever receive its 25 per centum of fully paid stock of such issue, as above provided for.

Fifth. Inasmuch as it is deemed by both parties important that at the beginning of the introduction of the Edison Electric Lighting System, and for some time thereafter until the Light Company shall otherwise direct, the preparation and installation of the plant required in each and every section or station should be under the responsible control and direction of the Light Company, in order to insure for the time being the benefit of all the experience of the Light Company, its officers and employees, it is agreed that the Light Company, acting as the agent of the Illuminating Company, shall give orders for and ob-

least, purchase and pay for all machinery, lamps, material, means and appliances that may be necessary according to the specifications and requirements of the Light Company for the complete preparation and installation of the plant required in each and all of the sections or stations herein referred to, it being however understood and agreed that as regards the said machinery, material, means and appliances requisite for the said plant, or plants, the Light Company shall make no charge for its services, except actual payments to employees for wages, etcetera, and shall make and receive no profit whatever as the agent as aforesaid, and that as regards the lamps required by the Illuminating Company the Light Company shall furnish the same at the price of 35 cents each, unless said lamps shall cost the Light Company more than said price, in which event they shall be furnished at what they actually cost the Light Company.

Sixth. If at any time hereafter it shall, in the opinion of the Light Company, be for the benefit of both parties to this contract that the Illuminating Company should give its own orders directly to manufacturers and should itself become a purchaser of plant, or any part thereof, it is agreed that the Light Company shall supply the Illuminating Company with all requisite drawings, specifications and models, completed and perfected so as to enable the Illuminating Company itself to contract directly with manufacturers and not through the intermediary of the Light Company for the manufacture of the requisite parts of a complete plant; but in such case it is agreed that no change whatever shall be made by the Illuminating Company in any parts of said system without the consent of the Light Company, and also that the Light Company shall, through its officers and engineers, have the right to supervise the manufacture, setting up and installation of any and all plants or parts thereof thus obtained, to the end that no interference or disturbance of the general system of Electric Lighting of the Light Company as the same is now perfected, or as the same may be hereafter changed or improved in the future, shall be made, but that the said system as a whole and in all its details shall be under the exclusive and entire control of the Light Company; and in no event shall the Illuminating Company ever use in any part of its plant, or in connection with any part of the system of Electric Lighting herein provided for, any new or different machine, method, material or appliance, without first obtaining the consent in writing of the Light Company. But it is further agreed that the Illuminating Company shall pay to the Light Company the actual cost of the services of engineers, draughtsmen, and other skilled labor required in making drawings as aforesaid, or in superintending the installation of plant as aforesaid, provided such charges shall be what are customarily paid for services of like character.

Seventh. At the present stage of development of the Edison Electric Lighting System it is impossible for the Light Company to state otherwise than approximately the cost of a plant for a section or station, but it is the judgment of the Light Company, acting in good faith towards the Illuminating Company, and desiring so far as may be to afford in advance every possible information appertaining to the cost of a plant, that the cost of the plant for each of the two sections or stations above specifically described, will be as follows, viz: the cost for the plant of what is called the down-town station, exclusive of a building to be occupied for the boilers, steam dynamos, etcetera, will be about \$250,000, and the cost for the other, or up-town station, also exclusive of said building, will be about the same amount. The items of machinery, lamps, material and appliances constituting each of said plants and the cost of the same so far as can now be foreseen by the Light Company, are set forth in detail in a schedule hereto annexed, marked Schedule No. 2, for the down-town section. And Schedule No. 3, for the up-town section; and it having been hereto provided that the Light Company will act as agent of the Illuminating Company to give orders for purchase and pay for the said plants, it is hereby agreed that the Illuminating Company will in advance of giving said orders deposit with the Light Company the estimated cost of the same as far as such deposit shall be required by the Light Company, it being understood that the Light Company shall not exact from the Illuminating Company as aforesaid larger advance payments on account of said plant from time to time than is the best judgment of the Light Company may be necessary to secure itself from loss in connection with the said orders. It is further agreed that if the cost of the said plants should exceed the estimates as set forth in the schedule, or should any change be made hereafter by the Light Company, or under its direction, whereby the cost of such plants shall be increased, the Illuminating Company shall bear the cost of such increase, and furnish the money to pay for the same precisely as if such increased cost and such changes and modifications had been originally set forth in this agreement and in the schedule hereto annexed.

Eighth. The capital stock of the Illuminating Company, which is now fixed at \$1,000,000, shall not

be increased without the consent of the Light Company in writing, and without the issue and delivery to the Light Company of its proportion of said stock together with the cash payment as above provided for; but nothing herein contained shall prevent the Light Company from disposing of its stock in the Illuminating Company from time to time, should it care to do so either in whole or in part, as to the Light Company shall seem best:

Ninth. As additional compensation for the benefits granted by this instrument to the Illuminating Company, it is hereby agreed that the Illuminating Company's Board of Directors shall always contain two directors who shall be nominated by the Light Company, and shall be elected by the stockholders of the Illuminating Company, and it is further agreed that one of those two directors shall always be a member of the Financial or Executive Committee and of all other committees of said Board of Directors of the Illuminating Company.

Tenth. The Illuminating Company shall not mortgage its property or declare any scrip or stock dividend without consent of the Light Company. Whenever money is needed from time to time to increase the number of sections or stations, and to occupy and equip the same, such money shall be procured by increasing the capital stock of the Illuminating Company and shall not be obtained either by borrowing or by using the earnings of the Illuminating Company for said purposes.

Eleventh. The Illuminating Company shall on the first days of January and July of each year, severally, make a full report, verified by oath of the officer best acquainted with the details purporting to be given in said report, of the business of the Company for the next preceeding six months, and the Light Company shall have the right to prescribe a form or forms for such reports; and the Light Company shall have the right at any reasonable time and by authority of its Board of Directors or Executive Committee to examine the books and accounts of the Illuminating Company, and the latter shall on demand of the Light Company always furnish every reasonable facility for such examination.

Twelfth. The Illuminating Company shall not purchase any patents affecting the Edison System of Electric Lighting in any of its details whatever, nor shall it obtain any license for any such patents, without first offering to the Light Company the right to obtain such patents or such license, for the use of all its license, at the same price and upon the same terms as the same can be obtained by the Illuminating Company. If the Light Company either fails or declines to avail itself of the privilege of purchasing such patents, inventions or license, within two weeks after such offer is received by it, the Illuminating Company may then purchase the same, but it shall in no event use the same in connection with its business of furnishing light, heat and power without first obtaining the written consent of the Light Company.

Thirteenth. The Light Company assumes and reserves to itself the right to prosecute and defend all suits affecting the validity of its patents, and will upon notice from the Illuminating Company prosecute all infringements of said patents in the territory covered by this agreement whenever the Light Company, having in view its interests in said inventions and Letters Patent in other portions of the United States and elsewhere shall deem it judicious and proper to do so; and it is hereby agreed that whenever any actions affecting the patents of the Light Company shall be commenced against the Illuminating Company, or shall come to its notice in the regular course of its business, the Illuminating Company shall immediately and without delay notify the Light Company of the same, and if the Light Company does not elect to prosecute and defend any suit commenced against the Illuminating Company, or to which the Illuminating Company shall be a party, affecting the validity of the patents of the Light Company, the Illuminating Company shall then be free to do so, subject however to the general control and direction of the Light Company should the latter from time to time choose to exercise such control.

Fourteenth. This contract shall continue in full force and effect during the life of any or all of the patents which the Illuminating Company is licensed to use under or pursuant to this instrument, or which it may hereafter be licensed to use by the Light Company.

*Why not its 65
copy?
after printing
for sufficiency
divided on 10/10/10*

PROSPECTUS

OF THE

United States Underground Cable Company.

This Company has been Organized under the General Laws of the State of New York,

WITH A

CAPITAL . . . of . . . \$600,000,

Divided into 6,000 Shares of the par value of \$100 a Share.

THE LIST OF TRUSTEES, INCORPORATORS, AND, OFFICERS, IS GIVEN
BELOW.

TRUSTEES AND INCORPORATORS:

| | |
|--------------------|--------------------------------|
| ADOLPHO HEGEWISCH, | 27 Pine Street, N. Y. City. |
| JOSEPH J. SLOOUM, | 80 Broadway, N. Y. City. |
| JOHN K. GREEVEY, | 20 William Street, N. Y. City. |
| ALFRED REICHELT, | 60 Exchange Place, N. Y. City. |
| HARRY A. SAMUELS, | 60 Exchange Place, N. Y. City. |

OFFICERS:

| | |
|--------------------|------------|
| ADOLPHO HEGEWISCH, | PRESIDENT. |
| JOSEPH J. SLOOUM, | TREASURER. |
| JOHN K. GREEVEY, | SECRETARY. |

This Company has contracted with the Societe Anonyme des Cables Electriques, of Paris, France, for the purchase of the Berthoud-Borel patents for the United States of America, and propose to manufacture and lay underground electric cables both for telegraphic purposes and lighting and for telephonic purposes.

The Berthoud-Borel system is pronounced by prominent electricians to be the best system hitherto devised for solving the problems of underground electric cables, and is in extensive use throughout France and on the Continent of Europe.

The problems to be solved, in order that the accomplishment of the object might be effected, were two in number : first, that a method should be invented by which a great length of cable might be manufactured at once; and secondly; that an insulating material should be found and applied in such a manner as to be less expensive than gutta-percha. These difficulties are successfully surmounted in the process of Messrs. Berthoud and Borel, by means of which great lengths of cable may be manufactured very rapidly, and at a great saving in expense over any process previously in use. A copper wire is wound in cotton and bathed in paraffin and rosin, the whole hermetically inclosed, in perfect contact and under pressure within a lead envelope. This is the new cable reduced to its simplest expression. Cotton bathed in paraffin and protected from moisture is an excellent insulator. Experiments already made on an extensive scale, have proved that it may replace gutta-percha and india-rubber. Moreover the new cable, being mechanically and speedily manufactured, and with cheaper insulating material, is naturally cheaper than the cables heretofore in use.

At the recent French Exhibition at Paris, the Company Jablokoff made use of these cables for sending the current to the electric candles and to the different motors in motion. 15,000 metres of Berthoud-Borel cables conveyed power and light to different parts of the palace. 5,000 metres were laid by the same company for Jablokoff lights at the opera.

The cable with many conductors has been placed in sewers to connect the Ministry of Posts and Telegraphs with the Exhibition. Some kilometres too have been laid already in sewers for telephonic purposes. New and extensive contracts have also been entered into with the Parisian Telephone Company.

The electro-static capacity of these cables being twice less than that of gutta-percha, they need twice less electricity to be charged. This would prove of great advantage in submarine cables and also in long lines of underground cables.

Another originality of the new system is noteworthy. With the ordinary cables, to avoid as much as possible induction from one wire to the other, each circuit must have one going and one returning wire. With the Berthoud-Borel system the lead coating may be put on each wire, being insulated, to be used as a returning wire. Lead is not so strong a conductor as copper, but the section of lead being relatively considerable, what is lost in conductivity is gained in diameter. This is naturally a great economical advantage.

The French Company has extensive works at Grenelle, in Paris, and another at Cortaillod, near Neuchatel, in Switzerland.

When the cables are to be placed in the earth, they are passed twice through the press so as to receive two lead coatings, between which a water-tight substance is introduced. With this treble protection, the new cables brave the inclemency and influence of the weather.

It is naturally quite feasible to introduce many wires in the same cable, so as to have cables with seven, eleven, fourteen, &c., conductors perfectly insulated from each other.

The Societe Anonyme des Cables Electriques will manufacture and ship full and complete machinery for the purpose of putting into practical operation the Berthoud-Borel system in the United States, and will send skilled machinists to explain and superintend the working of the same.

1881. Electric Light - Edison Electric Lamp Company - General (D-81-023)

This folder contains correspondence, agreements, and other documents relating to the business of the Edison Electric Lamp Company. Most of the correspondence is by Francis R. Upton, treasurer and general manager of the company, and by Philip S. Dyer, secretary. Many of the letters deal with company finances. Some relate to the acquisition and testing of bamboo samples for use as filaments. Other material concerns the purchase of a new factory building. During the year the company changed its name to the Edison Lamp Company.

Approximately 99 percent of the documents have been filmed. The following categories of documents have not been filmed: routine correspondence regarding the shipment of lamps; duplicate copies of selected documents.

P. Steamer "City of Pará"

Pará, Brazil, Jan. 14/81

Thos. A. Edison Esq.,

Muske Park, ~~Ill~~

Dear Sir:-

By the steamer "City of Pará" expected to touch at this port to-morrow enroute for New York, I send you two boxes and one package of samples of different kinds of vegetable fiber collected by myself since my arrival at this place on the 19th ult.

I enclose herewith the receipts of the steamer company for the boxes and package. They company will not undertake to deliver them at Muske Park, and you will have to send to New York for them. The Agents are Malloy & Co., and their office is near Fulton Ferry in N.Y.

I enclose also a list of the contents of the three parcels.

Of material which appears to promise anything, I have sent enough to enable you to make some experiments without having to wait to order it.

I would call your attention to some observations on the effect of different methods of drying, on

woods producing fiber, also on the individual fibers.

The climate here is so moist that everything in the way of wood decays in a remarkably short time. I found my samples of palms covered with mould in one day, and the prospects were that all my specimens would be ruined entirely before I could get them out of the country. I then made arrangements with a baker, by which I was allowed to put the specimens on the top of his furnace. This stopped their moulding, but the effect of the drying so rapidly upon the specimens and upon the fiber was very marked. Specimens of bamboo (see No. F) split and celled inward, and ^{other} filthy woods did the same (see No. E). Nos. 5A and 5B which were put in the furnace green show all their fiber rotted very much after the fashion of No. F, while specimens of fiber taken from those same pieces, and which were not dried, remained apparently solid (see No. 5BB), and fiber taken from a dead trunk of the same kind of tree appears to be quite solid, though the fiber is small (see No. 5E).

I would call your attention to Nos. 5A, 5B, 5BB, 5C, 5E

the same as the other two, but the first is the most common.

1870

The first is the most common, and is found in the same places as the other two.

The second is found in the same places as the first, but is less common.

The third is found in the same places as the first two, but is the least common.

The fourth is found in the same places as the first three, but is the least common.

The fifth is found in the same places as the first four, but is the least common.

The sixth is found in the same places as the first five, but is the least common.

The seventh is found in the same places as the first six, but is the least common.

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The ninth is found in the same places as the first eight, but is the least common.

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The eleventh is found in the same places as the first ten, but is the least common.

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The thirteenth is found in the same places as the first twelve, but is the least common.

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The twentieth is found in the same places as the first nineteen, but is the least common.

The twenty-first is found in the same places as the first twenty, but is the least common.

The twenty-second is found in the same places as the first twenty-one, but is the least common.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company transmits and receives messages only on condition of payment of liability, which has been accepted by the sender of the following message.
The Company does not accept any responsibility for the delivery of messages, and the Company does not accept any responsibility for the delivery of messages, and the Company does not accept any responsibility for the delivery of messages.

JOSEPH W. HARRIS, President.

Date: *Therolo Park, N.Y.* 1882

Received at: *791 BROADWAY.* Jan 6

To: *Samuel Insull*

READ THE NOTICE AT THE TOP.

65 Fifth Ave. N.Y.
Will be at your office
today and answer London
Volks

J.R. Mpton

106.7.8

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

This Agreement entered into this
day of January in the year eighteen hundred
and eighty one by and between the Edison Electric
Light Co. a Corporation organized under the Laws
of the State of New York and having its principal
office in the City and County of New York here-
inafter called the Light Co. and Thomas A.
Edison, Charles Batchelor, Francis P. Upton
and Edward H. Johnson, Trading and
Manufacturing under the name of the Edison
Electric Lamp Co. of Menlo Park Middlesex
Co. State of New Jersey and hereinafter called
the Lamp Co.

Witnesseth

Whereas The said Light Co. is desirous of
encouraging promoting and fostering for its
own benefit a Manufacturing for the fabrication
of the Incandescent Lamps the patents
for which are owned by said Light Co. to
the end that when the said Light Company
has erected a plant for the distribution of
electricity for Light in one or more Cities
that it will be enabled to secure at a fixed
sum all the Lamps covered by the patents
of the said Edison that it may require in
its business aforesaid and also to secure to
its licensee a depot for the supply of such
a number of Lamps as may be required
from time to time at a fixed price. And

Whereas the said Lamp Company is desirous of supplying all the Electric lamps covered by the patents of the said Light Co. that may be required by it or any of its licensees at a fixed price, provided that the Capital invested in works for the manufacture of such lamps shall be protected by the granting to the Lamp Co. by the Light Co. of the exclusive right to manufacture all the Electric lamps that enter the Light Co. and any and all of its licensees require during the life of the patents for the same, and also the right to manufacture for export such lamps as may be desired by the Lamp Co. without payment of a royalty to the Light Co.

Therefore be it agreed on the part of the Lamp Company, First that the Lamp Co. shall invest in actual cash not less than fifty thousand dollars for the erection, perfection and maintenance of a manufacturing establishment capable of furnishing two thousand lamps complete during each and every working day in the year.

Second, That the said Lamp Company will if so required by the Light Co. six months from the date hereof increase the capacity of its works so as to produce four thousand complete lamps in each and every working day in

the year providing the said Light Company will agree to take and pay for all lamps made during a period of two years from the date at the rate of four thousand per day.

Third The Lamp Company agree to deliver such lamps complete ready for use by the consumer for the sum of Thirty five (35) cents each, packed in boxes of one half gross, and delivered to the freight depot at Puerto Plata.

Fourth. The said Lamp Company agree to keep a true and accurate record of all lamps made and agree not to deliver or sell any lamp or lamps whatever except upon the order of the said Light Company or its Licensee except for export to foreign countries

Fifth the said Lamp. Co. agree to keep correct accounts of its net income per lamp made which account shall be open at all times to the inspection of the Officers of the Light Co. and when the net profit to the Lamp company shall exceed the sum of five (5) cents per lamp. in any one year then one half of the excess of profit over and above the said five cents shall be paid to the said Light Company or its Licensee in the form of a reduction from the fixed price of Thirty five cents per lamp

The Light Company on its part agree and accept the propositions of the said Lamp Co. as set forth in clause

1, 2, 3, 4, 5 and its heirs, grants to the said
Lamp Company the sole and exclusive
right to manufacture for domestic con-
sumption and for export, the Electric Lamp
the patents for which are now owned by
said Light Co. upon the conditions above
recited and said Light Company
further agrees not to license any other
party parties or transfer its patents or
rights to any other parties or party without
reserving in such transfer the sole and
exclusive rights of manufacture which
said Light Co. has granted to the said
Lamp Co.

Edison ~~Inc~~ Lamp Co

1
Memo. for Contracts between
The E. E. L. Co. & E. E. Lamp. Co.

Amount actually price of Camp

Have Cairns send
over the copy of the
Lump Co ~~Object~~ which
I gave Mark a copy
Saturday night.

Macapá, Province of Pará

Feb. 3, 1881

Thos. A Edison,

My dear Mr. Edison:

Having finished the vicinity of Pará, I came across the Amazon to this place in search of a palm, which, I am told, has an amber colored fiber perfectly straight. I have not found more than eight or ten new plants since I sent you the collections in January, and being so far from Pará at the time of the sailing of the steamer for the States, I shall not be able to send anything this month. By the March steamer I hope to send you both samples of new plants, and a lot of bamboo. I have found some bamboo of pretty good size here at Macapá, and am having it cut. I leave here to-morrow to ascend the Araguari river in search of the peculiar palm. The trip will take about two weeks. My cable address for the present will continue to be at

Yours very truly,
John C. Brammer.

[illegible]

THE MERCANTILE AGENCY.

R. G. DUN & CO.,

Mechanics' National Bank Building,
708 BROAD STREET,

Newark, N. J. FEB 4 TH 1881

EDISON, ESS.,

MENLO PARK, N. J.

DEAR SIR:

WE HAVE ONE OR TWO INQUIRIES AS TO

THE "EDISON ELECTRIC LAMP COMPANY," MENLO PARK, AND DO NOT FIND ANY CER-

TIFICATE OF SUCH AN INCORPORATION FILED AT NEW BRUNSWICKIT HAS OCCURRED

TO US THAT YOU MIGHT BE WILLING TO GIVE US SOME INFORMATION XXXXX RE-

LATING TO THE CONCERN, IF SUCH AN ONE EXISTS. IF SO, WE SHALL FEEL VERY

GREATLY OBLIGED TO YOU.

VERY TRULY YOURS,

R. G. Dun

Co is composed of T A Edison
Chas Batchelor, Francis Upton
& E. H. Johnson, \$35000 invested so
far. Co not incorporated, Don't think
we owe \$10.00, Hope nobody will
ever give us any credit.

T A Edison

1881 Feb 4
to Mr. Edison
at Menlo Park, N. J.
from R. G. Dun & Co.
Newark, N. J.

Answered Feb'y 6. 1881
see letter book.

103, 104, 105

L. N. 2

88% HT A 837.

B. G. Dunn & Co.

THE MEROVITE AGENCY

ms

Balto Feb 6/81
Prof H. A. Rowland

J. R. Weston
Let's see and
another 1/2 doz
plates
on the wire
Baltimore, Md. Feb. 6/81
Yours, packing is very
TAC

My Dear Edison,

I received six of
your lamps the other
day but they were nearly
all broken by the express
company. I shall try
them presently. Please send
the bill as of course I
do not want you to
give them to me. I
wish you would write
out those notes for me
on your experiments, as
I would like to send
them to the Physical Society.

I have not yet seen
the man with the paper
with respect to the patent.

Yours truly

H. A. Rowland.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie B. Upton,
Edward H. Johnson.

Menlo Park, N. J., Feb 7 1881

Thos. A. Edison Esq.

Dear Sir:

I spoke
with Lawson yesterday regarding
the experiments. He said that
he has been trying the method
of plating on the whole
carbon and then plating the
copper on the carbon off. He
has had poor success so far. He
has also been trying solvents for
sealing wax. The larger portion
of his time has been used up
in making supports and in
getting ready to plate 200 a
day to take the place of
the old clamps and keep us
running. We have stopped the
making of the old style of clamps
and so require him first of
all to furnish carbons plated
on by any method he may

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

see fit. He will try all the experiments you mentioned with extreme care so as to be sure of the results.

"Could not the word 'Electric' be dropped from the title of this company?" I find that it is hard for people not to follow it with "Light" even when meaning "Lamp". The ~~title~~ ^{word} is distinctive enough without for you have never made other lamps.

Yours Truly

Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., ²⁰Feb 17, 1881

Thos. A. Edison
Dear Sir:

I send
your stock samples sent by
Brunner of Brazil. The stock
is nine feet long without
a flaw, came oval 1" and $\frac{3}{4}$ "
diameters. Very common on
banks of Amazon. Bradley
will try some as soon as
it is in proper condition to work.

I proposed to Holzer this
morning that the working
day be nine hours instead
of ten as as to save ^{money} and bring
all the men to their work
on time. He says that it
might make some dissatisfac-
tion. If we could do so
all those working could com-
mence at once. I send you

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

the time of arrival of the
men. I should have
taken nine hours without
consulting you if Holzer had
not said he should want
his men to work ten.

Dr. Haid wishes a small
gas holder and apparatus for
making small quantity of
fixed gas. Shall I order.

Yours Truly
Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Feb 18 1881

Thos. A. Edison *brother*
Dear Sir:

I requested ^{Yester-day} Holzer to
send up the inside
parts ^{cleaned} for inspection.
He refused. What shall
be done?

I have also posted
signs partly at Holzer's
wish to prevent smoking.
Holzer smokes in spite
of the sign and yes-
terday I found a
number of his men
smoking.

Last evening the power

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

stopped at five; yet for
the hour from five
to six all his men
were standing round
smoking and talking
and the time sheet
shows ~~eight~~^{ten} hours.

I wish to ask
if Halger is to have
entire charge of the
glass department without
my supervision or with.

He is evidently
aiming to throw all
the work he can
outside of his place.
You can understand

3
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upson,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

that in a division of
labor sharp lines must
be drawn; for example
Mills must be able
to say the inside parts
are not clean or
are clean. It seems
to me that a piece
of work should be
finished ready for inspection
before leaving the place
where it is made.

Yours Truly
Francis R. Upson.

T. A. EDISON,

Menlo Park, N. J.,

Feb 19

1886.

Mr. Edison

I received your
Order this A.M., & will com-
ply with requirements. But I
would wish to say that the
necessary attention of the lamp,
in all its details takes up
my entire attention in the day
and I have done nearly all
the calculating & current work
in the evening, keeping me
~~every night till mid night~~
& after. I have many drawings
& duplicated & considerable
behind me. If Horrell could
give me all his spare time
as he is probably willing I
could do much better for
I really have more than I
can do alone day & night
over

In this connection I wish to
ask for an advance in
my salary. It is inadequate
for my economical wants &
as I have been here over
a year and will be
in ~~my~~ 28 years old, next
week I ~~think~~ ^{hope} you will
favor it, I will endeavor
to earn it & give satis-
faction

Your obedient servant
Mr. J. Hammer.

Edman - How much does
Hammer get = ~~if 8 per~~
~~10~~ - Rauls his wages
\$2 per week = Ask Howell for
me if he will help Hammer
on curves on his spare time

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Feb 24 1881

Thos. A. Edison:

Dear Sir

The boiler was tested yesterday and steam is on today. Saturday we shall run the engine.

The pulley ~~from~~ for the belt from the balance wheel of the engine was ordered too narrow; we are waiting a wider and larger one.

The three lines of pumps try our patience by taking so much current. When all the lamps are on they are very low.

We always take off half to bring up the remainder.

Yours Truly
Francis R. Upton.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS AND DELIVERS messages only on condition, limiting its liability, which have been assumed to be the order of the following message.
First can be carried subject to the payment of a message fee in the following station for retransmission, and the company will not be liable for the delivery of the message.
This message is an UNRECEIVED MESSAGE and is subject to the order of the sender, under the conditions stated above.
At St. Louis, Mo.,

NORVIN GREEN, President.

Dated Feb 16 1896

Received at 791 BROADWAY

To Thos A Edison

READ THE NOTICE AT THE TOP.

65 Olive
Goldman sends up his
Very important lot
lamps to test
Francis say by
instructions meters and
motors first have
Cabled Moore
Francis Allpton

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

1700 N.Y.

Direct Wires.

THE EDISON ELECTRIC LAMP CO., ¹

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Oct. 28, 1887.

Dear Mr. Edison:

The engine was started today and worked well. Pumps is all right.

I tried the mercury pump today and found that it took nine revolutions per minute to bring mercury to top, showing some considerable leakage. I am going to make some experiments to find out the capacity of the pump.

THE EDISON ELECTRIC LAMP CO., ²

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

The dynamos that we have been using for pumping became crossed so badly that I have changed it today. The fibres in the commutator should be badly and crossed the machine.

For half lamps do you not want webbers as well as Volts measured so that they can be fained? When we get our new instruments from Bergmann we shall be able

THE EDISON ELECTRIC LAMP CO.,

3

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

to do this with very little trouble. Then I can have them placed in pairs for packing.

The punch for cutting paper gave out Friday and is now being repaired:

I have let Burroughs of Newark go ahead on Bradley's moulds as as to get him ready to cut 1000 a day of either A. or B. fibres. Bradley thinks he can make them satisfactorily.

THE EDISON ELECTRIC LAMP CO.,

4

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

I have very little faith in the paper at present. It will not save but on two operations cutting and carbonizing. Bradley thinks he can make fibres on a large scale for 1 1/2 cents. I am sure they can be carbonized for less than a cent apiece on a large scale.

Then against this the cost of cutting paper carbonizing it and of coating it with car-

5
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison.
Charles Brush.
Frederic T. Upton.
Edward H. Johnson.

Menlo Park, N. J., _____ 188

hon. Dr. Haid is getting
along, though I think
he is mistaken re-
garding the value of
the hydrogen. I shall
do everything to make
your a success, for
I know the value of
a cheap low resistance
lamp.

Yours Truly

Thomas A. Edison.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Edgerton,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., March 3, 1881

Mr. Edison :

I have
sent up 18 more
lamps of Order 39
or Houchikese lam-
bos to be tested

Yours Truly
Francis R. Upton

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward W. Johnson.

Menlo Park, N. J., March 3 1881

Dear Mr. Edison

I send
you ^{marked} sample of green stock.
Notice the curl of the fibre.
Bradley says that he cannot
well work it. This is from
the last lot sent from Japan.
Sample marked "11" shows a
ridge from the bamboo cane.
We have written to have no
more like this sent.

I like the looks of the
curve and the bamboo marked
R or Hanchiken that I think
it would be worth while to
order some immediately. I
send cipher so that you can
order. Mohawk Higo Pasha
Drafting.
Translation Morvilyan Heiman
Co. Send \$5.000 Fizes

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

by San Francisco similar
to sample marked R and
called Hanchikee.

Yours Truly
Francis R. Upton.

THE EDISON ELECTRIC LAMP CO., /

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson

49

Menlo Park, N. J., March 7 1881

Dear Mr. Edison

The only reason I can offer for low curves is this. We have been running more lamps recently and as a result had less current for final heats. I have given strict orders that they shall never light more than 42 lamps at one time though we have 150 on the pumps.

I have now some lamps testing brought up quickly on the

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

pumps and very high, they are copper plated ends in silver clamps. Tomorrow I shall send up a lot of plated clamps. It takes two to three times as long to get off plated clamps than silver clamps, as they seem to contain a very large quantity of gas. I think now I am getting the best vacuums that we have ever had. I have found that I can get as quick a

THE EDISON ELECTRIC LAMP CO., 3

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

vacuum without heating
the lamps, ^{before going on pump} as with.

Clean mercury acts
promptly and well.
and ~~set~~ upsets all
rules of working with
mercury that was not
good.

We have changed
the ^{feet} pump to the boiler.

I had the line leveled
and found 22 feet
rise from the hook
to the pump through
600 feet of pipe. I
thought it was asking
too much of Providence

THE EDISON ELECTRIC LAMP CO., 4

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

and as placed the pump
so as to give 11 feet
rise. It is now in a
small house outside
of the fence just below
the bank.

Campbell our head
carpenter has done well
with the coal shed. He
took the day laborers and
showed them where to labor
work and made the
shed even quicker than
if he had carpenters.

I am having a pattern
made for a cover to
take under it 100 forms

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

at once. Welch has carefully considered that he could handle this number at once.

By slightly changing the furnace I can so arrange as to get 600 A cartons at a heat or 1200 B cartons. That is 1200 A or 2400 B a day.

Lawson is showing considerable ingenuity and more industry than ever before. He is now waiting for corks with the right

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

sized hole before feeling complete. We have plenty with small and large holes but none of medium. These will be done in a few days.

The novelty company charged us about \$4.50 a pound for corks.

I found that the New York Belting and Packing Co. would make them for \$1.50 and so have sent them the mould.

THE EDISON ELECTRIC LAMP CO., 9

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J., _____ 188

I can now see my way clear to putting the pump job as piece work and making it satisfactory. The air in the clamps must be worked out by repeated bringing up high so that when the inspector comes he will not be able to spoil the fall tube by bringing the lamp up very high.

I cannot judge at all concerning the offer from Brooks & Co. without seeing the place.

THE EDISON ELECTRIC LAMP CO., 10

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J., _____ 188

If you say so I will go to see what it is. I am thoroughly convinced by my experience here that we must move. We never can make the lamp cheap until we can have plenty of boys and girls at low wages and these can never be had except where there are other manufacturing establishments employing men.

The sooner it is decided that the

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

factory will be moved
the better, for ex-
pense can be stopped
in ^{many} ~~several~~ ways. I
have no preference as
to place, only a
city. I think a little
outside of Newark will
be just right. We
need first of all some
space for we do not
want to be caught when
we enlarge. I know
the lamp ~~factory~~ ^{factory} will
be large, I have
not ~~write~~ ^{figures of} figures of figs.
Yours Truly Francis R. Upton

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., March 7, 1881

Dear Mr. Edison:

The experiment Nichols tried was simply passing the current from one machine through the armature and magnet of another to find the pull at starting. This was for Prof. Youngs information, he found that it would start 15 lbs. at 30 inches radius.

The trouble ~~started~~ with the machine was entirely beyond his control

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

being a cross of the magnet wire with the base, which developed under a higher E. M. F. than usual, I am informed.

Yours Truly

Francis R. Upton.

Logan says both magnet and armature were crossed. The magnet was one of the old ones and had shellac only on it. The armature crossed at the edge with the iron.

F. R. Upton.

E. E. C.
#9
Adams
P.O. Permit # 11111
7th Mar

Quotation of
Platinum

Uptan value anything in this
I believe we better place to go
for unrefined
but for all purposes
this might do if they
are really the good
clean photo 4th is into. They
too improve your photo we are
prepared to take up orders
for Platinum. will in any
size, as you may desire, neces-
sary to sticks through.
Our prices are for wire:
Sp 1, with 10 to 12th in distance
2000 per lb. Sp 2000 per lb.
Sp 2, with only 5 to 6th in distance
2000 per lb. Sp 2000 per lb.
Sp 3, chemically pure Sp 2000 per lb.
Sp 2000 per lb.
Sp 4, chemically pure Sp 2000 per lb.
Sp 2000 per lb.
Sp 5, chemically pure Sp 2000 per lb.
Sp 2000 per lb.

Return

one photo for telegraph - to 18434 9000
one photo for telegraph - to 18434 9000

Now, I have given you
over bottom rates in British
& Grains which I transpired
into the Currency at 95
for 4 British units. Through
exchange for short paper
might at present be obtained
at lower rate.

I cannot think you can
buy as cheap in London,
as the price before mentioned
comprise free Delivery in
London, so that only the
C. & D. duty fees and small
expenses here, would have to
be borne within by you.

If you find any inconvenience
for business, please stop a
few lines and I shall call
at your office and talk the
matter over with you.

Yours most respectfully

Ch. F. Adams
P.O. box 3595.

We are not using
Pt. wine for anything else
then sealing through the
glass. Experiments are
dangerous and I should
not like to change.

J. H. Upton.

1881-03-08

Copy
Lamp Contract

Edison Electric
Light Company

and
Thos. A. Edison

at 4192 Broadway
New York N.Y.
March 8/81

Mar. 7/81
at 119 p.m.

This is to certify
for all legal purposes

Contract made
with Edison and Co.

AGREEMENT, entered into this eighth day of March 1881, between the Edison Electric Light Company, a corporation organized under the laws of the State of New York, and hereinafter called the Company, party of the first part, and Thomas A. Edison of Menlo Park, Middlesex County, State of New Jersey, party of the second part.

WITNESSETH:

WHEREAS, the Company is by assignment from said Edison the present owner of various inventions upon which letters patent have been granted or applied for, relating to Electric Light, and is, by contract entitled to the ownership of all such other inventions as may be hereafter made by him during the period of five years from the twelfth day of January, one thousand eight hundred and eighty one, and is desirous of promoting and encouraging the manufacture in a skillful and responsible manner of incandescent electric lamps to be used under the Letters Patent, and inventions aforesaid.

AND WHEREAS the said Edison enjoys in an especial manner the confidence of the Company in respect to skill, ability and integrity, so that the said Company is willing, with such safeguards in respect to its future business as may be right and proper to confer upon the said Edison the exclusive right of manufacturing in the United States incandescent lamps to be supplied to the licensees of the Company in the United States or under the conditions here-

inafter expressed for exportation to foreign countries for which the Company does not own such inventions.

AND WHEREAS, the said Edison is willing and desirous to engage in such business of manufacturing, and to devote his best skill and ability, not only to producing the best article which is possible, having respect to durability and the quality of light and economy of maintenance, but also to reduce the price of the same from time to time to the Company, preserving only a suitable manufacturer's profit, and to join with him Charles Batchelor, Francis R. Upton and Edward H. Johnson who are expert and experienced persons, also enjoying the esteem of the Company in the respects above named.

AND WHEREAS, it is mutually conceded by the parties

FIRST. That the said Edison and his associates, must have such assurance of being continued in the exclusive manufacture above referred to, as can properly be given to justify the expenditures requisite for providing the manufacturing plant needed to meet the demand of the Company or its licensees for lamps at all times during the period of this contract and

SECOND. That the Company cannot put the manufacture of its lamps so wholly out of its control that failure or inability of the said Edison to supply the demands of its licensees might jeopardize the prompt or profitable introduction and adoption of the Company's system throughout the

*Edison Lamp Co.
Inventor of Edison's
Lamp*

United States.

IT IS AGREED AS FOLLOWS:

I. The Company does hereby, subject to the stipulations hereinafter provided, license and agree to license the said Edison with the exclusive right to manufacture, within the United States for consumption therein, the incandescant lamp now, or from time to time used in connection with the Electric Lighting System of said Edison owned by the Company, and will not license the introduction into the United States to be used therein the same or similar lamps manufactured elsewhere or by other parties as hereafter provided.

II. Said license shall, unless terminated, or the exclusive character thereof modified, as hereinafter provided continue during the life of all and each of the Letters Patent for inventions of said Edison owned by the Company, under which such incandescant lamps may at any time be made.

III. The said Edison agrees to keep himself prepared to supply, and to supply promptly, all demands by the licensees of the Company within the United States for such lamps at a price not to exceed thirty five cents per lamp, safely packed for transportation in boxes of one half gross, delivered at a railway station ready for shipment, and from time to time to reduce such price as improvements in the art of manufacturing or other causes may make such reduc-

tion possible, it being understood that at a price of thirty five cents, a net profit of three cents per lamp may be made and is adequate, and that a greater profit may be made as the business of manufacturing ~~lamps~~ continue and develop.

It is further agreed that the said Edison will endeavor to reduce the cost of manufacturing the standard lamp, and that whenever the cost thereof shall fall below thirty two cents each, he will pay over to the Company one half the difference between that price and the actual cost of the lamp manufactured, and that on the first of January and first of July in each year, said Edison shall render to the Company an accurate statement of the number of lamps manufactured during the preceding six months and the actual cost thereof, and if such actual cost shall be less than thirty two cents, said Edison shall pay over to the Company one half the difference between such actual cost and thirty two cents each for all lamps for which he may have received payment during the next preceding period of six months, and the Company, by its officers and agents shall have free access at all times to the manufactory and books of the said Edison and all other books connected with the business thereof for the purpose of verifying the statements so made.

In determining cost, the total manufacture or output during the six months whether for the Company, or for foreign export shall be taken into account and the average cost of all the lamps manufactured during said six months

shall be taken as the actual cost of a lamp under this contract.

IV. The said Edison shall invest or procure to be invested in actual cash immediately not less than Fifty thousand Dollars (\$50,000) for the establishment of a suitable manufactory capable of furnishing one thousand lamps complete during each and every working day in the year, the investment already made at Menlo Park for that purpose being taken as a part of the same, and will thereafter keep himself adequately prepared to supply lamps to the licensees of the Company when called for in the manner hereinafter provided.

In order however, that the said Edison and his associates may not be under the necessity of making large expenditures for manufacturing plant in advance of the establishment of the Edison Electric Lighting System, throughout the United States, or upon an uncertainty as to the amount of lamps that may be required by licensees of that system from time to time, it is further agreed that the Company shall, whenever it grants licenses for the use of its lamps or system in any territory within the United States give notice thereof to the said Edison with the name of the licensee, and will require from such licensee a notice of the number of lamps required by it for initial installation and the time when (not less than three months after the date of such notice) the same shall be required, and the Company will transfer to the said Edison full information

thereof, and will also, upon his request, obtain, so far as possible, such suitable security or payment in advance, in behalf of the said Edison as will justify him in building such additional buildings or machinery as may be requisite

to supply to such licensee, within the time notified, the lamps required for initial installation, as well as for subsequent maintenance in the territory covered by the licensee and thereupon it shall be the duty of the said Edison, on receiving due payment therefor, to supply at the time named to such licensee the number of lamps called for, and thereafter to keep such licensee fully and promptly supplied with all lamps required for maintenance in such territory.

In all business connected with the supplying of lamps the Company will act as the agent both of the licensee and of the said Edison.

No order shall be received by the said Edison directly from any licensee, all orders shall pass through the Company and all drafts for payment shall be made upon the licensee through the Company as such agent, all shipments and deliveries shall be made only under the direction and control of the Company, but no compensation shall be charged to the said Edison for such service or intervention.

V. It being essential for the protection of the interests of the Company, that its licensees, who are by this agreement virtually restricted to one manufacturing establishment for their supply of lamps, shall be nevertheless

lous, at all times, able to procure the same of a suitable style, quality and character, with promptness and despatch, and that the Company shall have full power to protect itself against being hindered or delayed in introducing its Lighting System in all parts of the United States, it is agreed.

(1). That all lamps manufactured shall be of one or more standard sizes, styles and grades, to be fixed and determined by the Company and from time to time altered and modified by it, so as to enable the Company to require the introduction from time to time of all possible improvements affecting either the style, economy, durability or other qualities of such lamp, provided however that any such change which shall make necessary the use of more material, or that which is more expensive, or shall enhance the labor of making or handling said lamps, shall be made the subject of a revision of price, preserving the same relative proportion of outlay and profit as is fixed above, and in case of failure of the parties to agree, the revision shall be made and fixed by a competent arbitration to be appointed in the manner provided for by the Seventh Article hereof.

(2). That the diagrams and drawings hereto annexed marked "Exhibit A." are to be taken as establishing such standards for the purposes of this agreement, and until the same shall be modified by the Company.

(3). That the said Edison shall deposit with the Company forthwith complete working drawings and models

of such lamp in all its different forms as now made, and that thereafter, during the continuance of the contract, full and complete duplication of the same and working drawings and models of all improvements, changes or modifications thereunder, and of all machinery, tools and appliances of every kind employed by said Edison or his associates in the manufacture of such lamps, or in any way connected with the manufacture of the lamps or any part thereof, shall, with full specifications of the same be promptly deposited with the Company.

(4). In case the said Edison shall fail to supply all the lamps required by the licensees of the company or any of them as the same shall be called for, the Company shall have the right to manufacture or cause to be manufactured by others, such an amount of lamps as may be in its judgment required not only to supply the amounts in which the said Edison has been deficient, but also to guard against future failures of a similar character.

This stipulation is however intended to have a reasonable interpretation viewing all the difficulties of the said Edison in building up a new business in which unforeseen obstacles may be encountered, tending temporarily to embarrass him in the performance of his contract without his fault, and also viewing the necessity which the Company is under to make its territory promptly available by providing ample resources from which its licensees may obtain supplies

and with all these considerations in view it is agreed that the Company must necessarily be, and shall be left free to judge from time to time, acting reasonably and with good faith, whether the resources and management of the said Ed-

ison are such that he is liable to fail in supplying the lamps which have been or may be required by its licensees, and acting upon such judgment and in good faith the Company shall have the right, after any failure by the said Edison to make or cause to be made by others such amount of lamps as may, in its judgment be requisite to supply past deficiencies, and to guard against the contingency of future failure, and to sell and dispose of the same as it may think proper, but it shall not have the right to manufacture or authorize the manufacture of lamps by other persons, except to such limited extent as may seem necessary for the purposes above set forth. In contracting for lamps with any other manufacturer, or in providing means and appliances for such manufacture by itself, it shall be at liberty to provide or contract for such future supply as will justify the original outlay for plant to cover the actual or possible deficiency sought to be guarded against.

VI. The said Edison shall have the right, without royalty to manufacture lamps for export to all foreign countries, other than those in North and South America, but notice shall be given to the Company of the time, place and amount of such exportation before shipment of the same from

the manufactory, and the books of entry or correspondence relating thereto shall in like manner be, at all reasonable times, open to the inspection of the Company. But this right to manufacture for export shall not be allowed as to interfere with the prompt filling of orders given by the Company or its licensees, and the demands of that Company shall always take precedence of shipments to foreign countries.

VII. Should the said Edison continue, after the expiration of one year from the date hereof, during any period of six successive months, to fail in supplying the requirements of any one or more of the Company's licensees, it shall then be at the option of the Company to terminate this exclusive license, but in that case it shall, if required by the said Edison, take over the manufactory and other property erected or provided by him for the purpose of such manufacture, at the actual cost thereof, with a fair allowance for depreciation by use, such valuation in case the same cannot be agreed upon by the parties, to be fixed by three competent appraisers, one to be chosen by each party hereto, and the other to be chosen by such two.

Should however the said Edison in the case provided for by this Section elect not to make such requirement, it shall be the duty of the Company to deliver the orders of its licensees to the said Edison for such amount or amounts of lamps as he may have furnished as his average daily output for the three months next preceeding any notice by the

Company of its intention to terminate the exclusive license, but as to any excess which in its judgment may be required thereafter by the licensee of the Company, it shall be free to manufacture, or authorize the manufacture of the same by other parties as provided in the foregoing clause.

VIII. In case the said Edison shall supply or sell lamps to any person or corporation in the United States other than the licensee of the Company, or except upon an order in such instance made by said licensee through the Company, or by the Company itself, or shall fail to keep proper books of account for the purposes herein provided or shall refuse access thereto to the Company's agents, at any proper and reasonable time, for the purpose of determining the cost of such manufacture, or shall fail to furnish models, working drawings and specifications, and deliver the same promptly with the Company, or shall delay the supply of the Company's licensees by engaging in work for foreign countries without the consent in writing of the Company, it shall be at the option of the Company to revoke all licenses granted or arising hereunder.

IX. In case the Company shall become the owner of any other letters patent or inventions, or license thereof, or any tools, machinery or appliances useful in manufacture of such lamps, the Company shall authorize the said Edison to make use of same for the manufacture authorized by this contract during its continuance.

Should the said Edison or any of his associates above named at any time hereafter become the owners by purchase or otherwise, of any letters patent, or inventions or

discovery thereof, or any tools, machinery or appliances useful or necessary in the manufacture of such lamps, he or they shall license the Company or such persons as, after failure of the said Edison referred to and provided for in the foregoing clauses hereof, the Company may find necessary to employ for supplying the deficiencies above mentioned.

It shall be an obligation of good faith binding upon the said Edison and whoever may be associated with him and derive the benefit hereunder, to take all licenses or right to use the inventions of others in such form as to be able to convey such right of use to the Company upon the contingency last above stated.

Prompt notification shall be given by each party of every acquisition of the ownership, or the right, to use any letters Patent capable of use in or about the manufacturing or handling of said lamp.

X. Whenever, for the purposes of this agreement it shall, from time to time, be necessary to determine the actual cost of the manufacture of lamps packed and delivered for shipment as above described no compensation shall be allowed the said Edison, but there shall be allowed a fair and usual compensation for the actual services of the

said Batchelor, Upton and Johnson, such as is customarily paid in manufacturing establishments for similar services, but no account shall be made of interest or investments either in plant or stock.

XI. In case the said Edison should, by reason of death, disability or any other cause, be unable or fail to give his personal skill, ability and experience to the manufacture of such lamps it shall be at the option of the Company to terminate this contract and all licenses and privileges arising thereunder.

But in case such failure shall be without the fault of said Edison, the company shall purchase or procure to be purchased all his manufactory, works machinery and appliances at a fair valuation to be appraised in case of disagreement between the Company and the said Edison or his personal representatives by an arbitration in the manner provided by the seventh Article hereof.

IN WITNESS WHEREOF the said Edison Electric Light Company, has caused these presents to be subscribed by its President and its Corporate seal to be hereunto affixed and attested by its Secretary, and the party of the second part has hereunto set his hand and seal the day and year first above written.

(Sig) Thomas A. Edison.

Witness to the signature of
Thomas A. Edison.

(Sig) Sam'l Insull.

(Sig) The Edison Electric Light Co.

by S. B. Eaton,

Vice pres.

SEAL

Attest

(Sig)

U. G. Giddard,

Secy.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY

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THIS MESSAGE IS AN UNRECORDED MESSAGE, and is delivered by request of the sender, under no obligation to the Company.

J. A. B. BIEWER, Sec'y. NORVIN GREEN, President.

Date March 11, 1887

Received at 791 BROADWAY

of A Edison

6:05 - 5 AM

Lucille - answer yes

and we have like

of shafting from

dynamo room this

week

Edison Lamp Co

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

11 PM

READ THE NOTICE AT THE TOP.

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY EMPLOYEES SHOULD BE SENT.

Direct Wires.

Ans'd
1881
149

THE EDISON ELECTRIC LAMP CO.

Joseph Edison
East Orange, N.J.
Edwards H. Johnson

Menlo Park, N.J. Mar 11 1881

Mr Edison
Dear Sir

I enclose a letter from
Prof Anthony of Cornell University
Ithaca N.Y. asking if he could
get a lamp for lecture purposes.
Prof Anthony has shown great
interest in the progress of the
Edison light and has done much
to interest others in that part of
the state. He has used his
influence lately to my knowledge
with a company already formed
for Electric lighting in the cities
of Central New York to induce
them to wait for the perfecting
of the Edison light before beginning

operations.

Prof Anthony has an efficient generator run by water power - for, using the lamps and he is a thorough electrician - we to make a good showing for it.

If the Carlson Electric Light Co. will send him some Kaulple lamps, it would be a scientific favor well bestowed.

Yours very truly

E. F. Nichols

Dear Prof. Anthony, 6-13

Lamps of exactly the same volts - which have been used with my lamps, so they must have their 100-volt -
Send Bill to E. F. Nichols to E. F. Co. -

[ENCLOSURE]

DEPARTMENT OF PHYSICS,

Cornell University.

Ithaca, N. Y., Mar 9 1889

My dear Nichols
Would it be possible
to procure one of Edison's
lamps for exhibition
in a lecture.

I shall very soon
have a lecture upon
electric lighting before
my class and should
like very much to
show Edison's lamp.
Have made very little
progress yet toward plans
for my laboratory, but
have ordered about \$5000
worth of fine apparatus

[ENCLOSURE]

of all generally useful nature
such as clock and chrono-
graph Magnetometer
Galvanometers Dividing
engine, Catheterometer,
&c, &c.

Hope you are prosper-
ing and making pro-
gress with your work.

Very truly yours,
Wm. A. Hickling.

Wm. A. Hickling to Capt. Wm. A. Hickling.

49.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upson,
Edward H. Johnston.

Menlo Park, N. J., March 13th 1881

Mr. T. A. Edison
#65 Fifth Ave. New York
Dear Sir,

Your letter per Laid-
Insule was received and noted.

100 A. Lamps ordered for office will
go in 1st of the week. The 6 B.
Lamps Patent Clamps with large Sockets will
go in Monday morning by man from
Laboratory who takes in 50 Lamps for
Owens Hitcham & Co at same time.

The 4 doz B. Lamps. 2 doz with small
sockets and 2 doz. without Sockets will
go by Express tonight or Monday
morning first thing. Relative to
Dynamo's The four machines with the
big one and a .55 machine that Logan
says we can have is all we will require.

We noted your suggestion about covers
and rejecting of Copper plated Lamps and will test
them as soon as we have the machines
in position.

Very truly Yours
Edison Lamp Co as per

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., March 12 1881

Dear Mr. Edison

Bunnels made £, or Order
47 which was like our
No. 5 stock had only two
lamps to be tested. These
gave a life of 600 and
900 minutes. The sample
sent by Moore was very small.
We have a cipher word
Deprive, which means Hereafter
send £ only.

Pacha means Ship us 50,000
by first San Francisco steamer
Pacific - Ship 100,000 ditto.

We have recalled Moore
and I have no idea where
to reach him.

Yours Truly

Francis R. Upton

Called him Metuchen Hong Kong Button California

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Brush, Jr.,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

P. J.

Large Mataka is as
near to Sample E as we
could describe and this is
what Mousilyan and Co are
to send. I think that the fibres
will be satisfactory after they
receive the details and cables
already sent and inclosed you
will find copies. S. R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upson,
Edward H. Johnson.

Menlo Park, N. J., 188

Copy of letters send to
Morrisyan Heimann and Leo

Hiogo Japan Feb 4th
No 1 You will please confirm order
sent by cable to Moore for 50,000
splints of Mataka E. seasoned monthly
till further orders. The cable read
as follows "Mituckeu Yokohama
Pamat large Mataka Mohawk till
further orders please proceed China.
Edison's cable address here is
"Edlantus" New York not Mohawk
New York as suggested by Moore.

Feb 8th
No 2 Enclosed you will find splints
as manufactured by us from Bamboo
You need only cut the rough
splints of a width sufficient to give
no there,

Feb 17th
No 3 We sent telegram to you Feb 14th
a message "Mohawk Hiogo filled
pander."

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Bathelet,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Feb 17th contd.

The Filaments you sent were some of them yellow and some green. We find that we can only use those which are bright yellow, and always obtain the best results from well seasoned stock.

Feb 3rd

No 4. Enclosed you will find samples of Bamboo of a kind we can not use. You will notice kind of rib on the outer surface.

The Bamboo we use must be perfectly smooth on surface and perfectly dry. Of course you understand all about that.

Please do not send any more like the enclosed.

Edison Lamp Co.

[FROM PHILIP S. DYER]

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upton,
Edward F. Johnson.

Menlo Park, N. J., March 16th 1887

J. A. Edison

#65 Fifth Ave.

New York

Dear Sir,

We have got to
have some Gravity cells for
Plating. Could you give
us an order on The Western
Union Telegraph Co. for 2
Dry Gravity cells. or shall
we order them elsewhere.

Very Truly Yours
Edison Lamp Co.
P.S.D.

Ans.
J. A. Edison
Chestnut St. Station,
Philadelphia, Pa.
March 16, 1881

THE EDISON ELECTRIC LAMP CO.,

Menlo Park, N. J.

March 16 1881

J. A. Edison Esq.

165 Fifth Ave.

New York

We send in today map
and photograph of J. E.
Bransdorf property as per
your telegram. We had
no instructions to return
it before.

Yours Very Truly,
Edison Lamp Co.
P. H. S.

97 Liberty St.
N. Y. March 17 1881

Dear Sir,
The writer was
not quite correct in state-
ment of speed of your
No. 1. Pump. Is supply
a 50 H.P. Boiler - speed
the pulleys about 100 Revs
per minute H. T. Brewster
J. A. S.

Does not belong here

THE
THOMAS A. EDISON
CHAS. BATES
FRANK R. UHLER
EDWARD R. CHILTON

THE EDISON ELECTRIC LAMP CO.,

Menlo Park, N. J., March 17 1881

Answered
Dear Mr. Edison

I shipped
last evening by express 40
lamps 104, 105 & 106 Volts, balance
to follow today. This is as
near as I could come to same
Volts giving you well worked
vacuums. We have been run-
ning almost entirely on order
lamps for two weeks so had
very few regulars comparatively.
In changing machines I
found that I had to stop
for two days. I have improved
the time by putting in a
new line of pipes in pump
room, securing the wires in
photometer and pump room,
changing the blower and above
all by hurrying all hands
to get started soon.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

I find I can get along
without ^{one of} the dynamometers made
by Bergmann. I was going
to use it for testing B
lamps but Dr. Nichols pointed
out a way to read Webers on
B lamps from the resistance
box introduced to regulate.

If you wind the dynamometer
as as to make it high resistance
you will find it extremely
convenient in your office.

I hope to go to N.Y. to-
morrow and talk with you
a few moments.

Yours Truly

Francis R. Upton

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison
Chas. Bailew
Frederic R. Upton
Edward H. Johnson

Menlo Park, N. J., March 18 1881

Dear Mr. Edison :

We sent you yesterday 50 A. lamps. More than 100 were placed in sockets but ~~some~~ some were rejected.

I wish you would send us some sockets such as you are using.

A few of the ~~lamps~~ ^{lamps} sent were not riveted and ^{were} held with a cement that will melt. If these give you any trouble please report, I shall make no more that way until we have experimented further.

I will send Prof. Parker the lamps mentioned as soon as I can pick them out.

Hogan is going to let me ~~have~~ have another .55 machine.

I find I must run two .14 in series to get the E.M.F. I require.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

We had the machines and blower running last evening and expect to get well under way today. As every thing is new there is a little heating.

The photometer room is now arranged and I think can take care of all the lamps we care make. Every wire had to be changed as we now test E.M.F. only.

I shall put the ^{motors} ~~dynamometer~~ machines, the A lamps on the pump, the standard lamps for photometer, the lamps being tested and and the 4 & candle lamps all on one circuit using the low resistance dynamometer to keep the E.M.F. constant. Then this will be watched constantly and kept right. I cannot go to New York today as I want to watch

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

*the machines and engines to see
that they run all right.*

*Yours Truly
Francis R. Upton.*

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

March 21 1881

Dear Mr. Edison:

I am
going to New York to-
morrow morning
and will be at
the office about
11 A. M. I shall
then be able to tell
you all that has
been going on.

Yours Truly
Francis H. Upton

Thos. A. Edison Esq.,
Maulo Park, N.J.

Paris, Brazil, Mar. 23, 1881

Dear Sir:-

I am unable at present to give you a satisfactory report of my work during the last two months, or to send the additions I have made to the specimens of fibers sent you in Jan. set.

I am just recovering from an attack of what I hoped to avoid - the intermittent fever, which has prevented me from boxing my specimens, and now prevents me writing you more fully.

Almost everywhere I go now I find little more than a repetition of the kinds of fiber sent you in January, and for that reason the number of new specimens I have found is small.

Both on account of my health and for the sake of getting into a different flora I will go on to Bahia as soon as I am able to travel, and shortly afterwards to Rio de Janeiro.

(III)
I send by this steamer one box of bamboo joints brought from Macapá on the north side of the mouth of the Amazon. These bamboos were cut Feb. 2, 4 and 5, and left to dry in the shade, and were not sawed up until a month later. You see how they warped notwithstanding. Can you tell me how to cut them more smoothly? I've tried every kind of a saw in South America and I get a ragged end every time.

These bamboos can be had in immense quantities at Macapá and along the rivers Pedreira, Macacuary

and Aragoary which empty into the Amazon (between Macapá and the Ocean. (on the North side) The last named river has its banks lined with forests of bamboo from its mouth to over a hundred miles up. It is all of this coarse, filthy kind though.

Better even were this bamboo a good one, labor here in this great rubber district is incredibly dear. Rubber is now held at a little over \$1.50 per kilo, and as any unskilled laborer can make anywhere from five to twelve kilos of rubber per day and get the cash for it that very evening, you may form some idea of what difficulty one has in getting any thing done and what wages have to be paid. No amount of money can induce a rubber gatherer to work unless it is his sweet will to do so. Even foreigners brought here under contract soon become demoralized by this rubber business and leave their employers.

I am sorry I cannot write you more fully on this subject and about the "Piké" generally, but it is time to go to my "shake down".

I will further notice my address will be
To O.C. James, Rio de Janeiro
Telegraph ad. Brannan, Rio

Yours very truly,
John L. Brannan

P.S. This quality of bamboo I will enter on my list of specimens as no. M

I have the honor to acknowledge the receipt of your letter of the 23rd inst. in relation to the above named matter. I am sorry to hear that you are unable to attend the meeting of the 27th inst. but I trust that you will be able to do so on the 28th inst. I am, Sir, very respectfully,
 Yours, Sir,
 J. B. Brown

I have the honor to acknowledge the receipt of your letter of the 23rd inst. in relation to the above named matter. I am sorry to hear that you are unable to attend the meeting of the 27th inst. but I trust that you will be able to do so on the 28th inst. I am, Sir, very respectfully,
 Yours, Sir,
 J. B. Brown

Received
 March 23rd
 J. B. Brown

12/1/87

The above is a true and correct copy of the original.

2 6 2 2 2 2 2
7 4 1 1 1 1 1 Newark March 24th

Mr. Edison

Dear Sir

After leaving you i went to Hammer & Co
& they where unable to give me any figures
on Sackets untill day following — But
on the way home i stopped at Hyatt Place
& he thought they would cost about 5¢ each to
make them of bonelate — But in order to try it
would have to have a moulee made
that would cost about \$2.50⁴⁰⁰ Then i asked
him about a cement to stick them
to Glass & he showed me a cement
he uses (a very common thing no
Patent on it) & can be forced into a moulee
Sett very hard not easily affected by
weather or heat & is a good insulator
& dont shrink when drying — So i
thought i would try it — it is Litharge
& Glycerine ^{35% to} of Best Quality — what
do you think about it

Jas. J. Bradley

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic R. Upton,
Edward H. Johnson.

Menlo Park, N. J., March 25 1887

Dear Mr. Edison

I am
for a day or two
confined by the doctor's
orders to the house. I
have a ~~slight~~ slight
effusion of water on
the knee and he says
that being there it may
give me trouble for
life if not brought
under subjection.

The Corning glass
works have not
lived up to their
agreement with Holzer
for we have only

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

received
about 3 gross
of bulbs ~~and~~ now
6 are on the way.

Holzer went to Brook-
lyn Tuesday and made
arrangements for some
bulbs from there. He
says that they will
go with the Corning
tubes as both are
the same quality of
glass. Corning and this
place are the only
places where the glass
we need can be made
he informs me.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

We have stopped for
today and tomorrow,
so as to give us
ample time, to fix
the foundations of the
engine and allow
the new work to harden
in order to start Monday.

I have started Bradley
on the sockets as
you suggested and
I think we shall
have an improvement
on wood. He is
designing the moulds
for your idea
of using plaster of

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Paris

If you examine curve
sheets, note this. With
one exception the lamps
that have made the
longest records have
been low volts showing
that they could have
been high on the pumps.
Also the first curve of those
high on the pumps
shows a new phase
towards the end
indicating longer life.
Yours Truly
Francis R. Upton

Newark March 29th, 81

Prof Edison

Dear Sir
have begun Litharge & Glycerine
& it is better than V. Pure - find
it to expense Litharge 77 lb Glycerine
35 lb can get about 20 from 1 lb
will have to mix sawdust or some
cheap material with it - have made
drawings of mould & pattern for
moulding each pattern to hold 1 day
Lamps have taking drawings to
Byler the pattern maker will have
pattern today - think pattern
for moulding ^{sometimes} 1 day will cost
about 15⁰⁰ each but the pattern
was lost to make millions

Yours
Bradley

E. Lamp Co

Bradley
Mar 29 1881
u Locks

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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This message is an UNREPEATED message and is delivered by request of the sender, under the conditions named above.

A. J. BREWER, Secy.

NORVIN BROWN, President.

Date Memorandum 1881

Received by 791 BROADWAY. Apr 7

To A Edison

65- save

I shall be an office
about one pm

F R Upton

SPD

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 4, 1886

Dear Mr. Edison:

The
Hampton engine we
have does not give
satisfaction. The governor
is not sensitive enough
and allows very large
variations in speed.

This makes the E. M. F.
very hard to regulate.

The Brown engine was
so perfect that it makes
this seem doubly bad.

The bearings and scum-
mers heat badly and
the valves run very
hard when the

THE EDISON ELECTRIC LAMP CO., 2

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188.

pressure is over 60 lbs.

The Columbia lamps
are nearly ready. As
they are the extremes
of the Vols they do
not come very fast.

I hope to go to
New York today to see
about brass collars
such as we shall need
for sockets.

I have been to
see the Petter's place
at Newark and shall
bring the plans into
you as soon as they
are sent me. I

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

am very favorably
impressed with the
buildings and location

Yours Truly
Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., *April 5* 1881

Dear Mr. Edison:

I am
sorry, as I feared,
you have had trouble
from the wax. I only
used it to give me
time to find a better
mixture as I could
not hold them in
plaster of Paris. I think
you will find them
firm now, though
we have used wax
to hold the rings
in place while they
were riveted.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

I sent you a
memorandum of the
first run with
a blower from the
furnace. 534 car-
bons at one heat
150 at carbons among
them. Out of new
large ~~box~~ cover holding
200 B. 195 wires
good as per memoran-
dum.

If you will make
an appointment with
me tomorrow I will
come in to see you
regarding the Peters

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Proprietor at Newark
and other matters

Yours Truly
Francis R. Upton.

Rio de Janeiro, Brazil

April 11, 1881.

Thos. A. Edison Esq.,

Mendota Park, Ill.

My dear Mr. Edison:-

On account of the
rains and of having fallen very ill, with the fever, I left
Paris on the 28th of March, and came directly to Rio de
Janeiro. The latter part of my stay at Paris, had been
as I have already written you, rather unsatisfactory as far
as any new finds were concerned. Now in the southern
part of the country, the flora being very different, I hope
to add more rapidly to the number of specimens sent,
as soon as I shall have recovered sufficiently to
take to the field again. I hope to be able to go to
work again in a week or two. I have heard of
forests of bamboo on the Rio de la Plata, and from here
I expect to go to that river to look the matter up.
I have never heard a single word from any of the
samples sent you up to this time. Possibly, however,
the letters were sent me by the last steamer at Paris
and in this way, I have missed them. They will
be forwarded to me here in that case.

Yours very truly,

John C. Brammer

Address for letters: Jo. C. C. James

Rio de Janeiro

Address for telegrams:

Brammer, Rio

Blank No. 1.

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The Company will not take any responsibility for errors or omissions in transmission or delivery of messages.
The message is an **URGENT** message and is delivered by report of the sender.
The conditions named above.

A. H. BROWER, Sec'y.

NORVIN GREEN, President.

Dated Menlo Park N.J. 1880

Received at 791 BROADWAY.

To J.D. Edison

65- 5 Ave.

READ THE NOTICE AT THE TOP.

Will be at office Edison
tomorrow want to see
you regarding patent factory
engineer

J.R. Upton

15 p.m.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

E. R. L.

Apr 14th

C. R. A. Gardner

re Property
at Larcaine

370 5th ave

April 14th 1892

L. A. Edison

Dear Sir

I rec'd telegram
from Edison Lamp
Co saying "will meet
you at 370 5th ave
this afternoon" by
the representative of
the Edison Lamp Co
is with you please
say I am at 370 5th ave
now or I can come
to your office

to meet him if you
will so return most
by way.

Very truly

E. L. Borden

See

Wendell Hall Borden

Possess N.J.

Answer
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., *April 14* 1881

Lt. Edison,

Dear Sir:

Mr. Upton
wishes me to commence
work on the filing of
the carbons by contract

He agrees to furnish
me with 500 carbons per
day and I return them
to him filed at the rate
of $1.5\frac{8}{10}$ per carbon, and
when the number
reaches 600 per day I
shall file at the rate
of $1.4\frac{8}{10}$ per carbon with
100 per day $1.3\frac{8}{10}$ per carbon.

THE EDISON ELECTRIC LAMP CO.,

Thos. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.

188

and so on until the num-
ber reaches 1000 per day
and then the price becomes
1¢ per carbon as

Now if I agree to this
I wish to have it under-
stood that it has no
connection with the
original contract;
that I do not commence
on the original contract
until I can be furnished
with 1000 carbons per day
as agreed upon.
If this is satisfactory

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12/14/2017

the carbons of cement
work on the filling of
minerals to cement
the upper

[illegible]

to you. Please let me know by return post.

Yours very truly

John Lawson

John W. Lawrence

Apr 15 1951

1004

Plains Carbonate

~~Contract~~

Leguminosae

1000

which I can be furnished

with too bad a time.

[Handwritten signature]

100

Ans

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

April 14th 1887

T. A. Edison

65 5th Ave.

New York

Dear Sir,

We shipped to day by
Express through Davis & Co. of New York
Our Box containing 20. A. Lamps and
20. B. Lamps to Sir Wm Thompson of
University of Glasgow Glasgow Scotland,
with bold Ohms and foot lbs, marked
on each Lamp. As we have been to
considerable trouble about picking them
out we ought to charge more than
35¢ each. Please inform us at
once what we will charge so we can
send the invoice to him through Dr. J. C.
Morgan Co. of New York.

Yours very truly

Edison Lamp Co.

Dyer

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New
THE EDISON-ELECTRIC LAMP CO.,
J. A. Edison,
Chas. B. Schuler,
Francis B. Upson,
Edward H. Johnson.

Monlo Park, N. J., *Apr 14* 188*1*

A. Edison, Esq.
65. 5th Ave. N.Y.

Dear Sir

We ship today 200.
7. Lamps 10 x 17. to
Capt K. Van Horn doof
210 Battery St. San Fran-
cisco. Cal. Via Pacific mail
What will we charge ~~you~~
for these 100 lamps and 1700
shall we charge.

Yours Truly
Edison Lamp Co
Horne

Charge what the sockets
cost adding 20 pc profit
and charge 45 c each for the
lamps and charge for packing
double what it cost

Will bill to
Edison N.Y.C.
March 14 1881

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. McIntosh,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J. April 16 1881

J. A. Edison Esq.

Dear Sir,

Your relation
to price on Lamps for
V. V. Columbia was
received and noted
and we will follow it
The letter, we under-
stand from Mr. Upton
that we are not to send
invoice for two or three
weeks.

Yours very truly
Edison Lamp Co.
EJS

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upson,
Edward H. Johnson.

Menlo Park, N. J., April 16th 1887

T. A. Edison Esq.
Dear Sir

After we had written
you asking what we were to charge
for two Mr. Thomson's Lamps. We sent
an invoice of same to Dr. H. Morgan
& Co. charging them \$1.50 each as per
orders from Mr. R. Upson. as the Lamps
cost us fully that on account of
testing, picking out &c. Shall we
send for the invoice and bill them
at least or let it stand as it is.

Yours very truly
Edison Lamp Co.
Dyer

A.B. We have written Messrs. Murakami
Hermann Co. of Hiogo Japan
that on the arrival of "Moon" we will
write them full instructions.

We have on hand about 250,000 Bibles
in Pole Stock E. Lamp Co.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 18 1887

Dear Mr. Edison :

Dr. Hail
has not yet furnished
us with the treated
plumbago loops. He prom-
ises them daily.

Atchison has made
five thousand loops and
perfected a system by
which they can be
made. He is willing
to throw up the contract
and anxious to come
into the factory to learn
the process of making
lamps so that he
can go to France.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

I think it would be
advisable to stop making
plumbago loops for the
present and let him
come down here.

I wish you would
not ask us to make
but few of these lamps
at present, since it breaks
in on the system of
making A and B regular
carbids. I want to get
one thousand a day of
these so as to see
a profit before trying
to manufacture new
styles.

THE EDISON ELECTRIC LAMP CO., ³

Thos. A. Edison,
Chas. Batistoni,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

I have written to Japan that we will wait until Moore returns before deciding. We have enough fibres on hand to keep us running four months at least, and fifty thousand more on the way. They have cut 710,000 ^{sketches} and will cut 100,000 R so that we can feel sure of a supply.

THE EDISON ELECTRIC LAMP CO., ⁴

Thos. A. Edison,
Chas. Batistoni,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Last week we met with an accident. Dr. Nichols had run the wires in the photometer room under a covering on the floor. The valve of the steam pipe leaked and let water over them. The magnet or exciting lines were eaten off lowering the E. M. F. In a very few minutes a new line was run but those minutes had let the pump stop so that the mercury jumped up

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____:188

in a number of lamps.

Fifteen lamps were cracked shortly in the fall tube where the mercury found and when they would have gone in a few days.

The mercury jumped up into 150 lamps making them resistance lamps. When I went in the next day to see you I did not think to mention the accident in the few moments I had of conversation. I did not write

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____:188

you as I have taken all precautions to prevent it happening again. When it happened Kente wire had been ordered and it was Dr. Nichols intention to run all the lines overhead with it. This has now been done. Dyer said you had a report of something very bad. I do not think it was as it would be was a defect that we had seen and were going to remedy, though a ~~let~~ leaky valve

THE EDISON ELECTRIC LAMP CO.,

7

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

and water were not
thought of. I can write
you if you wish
all the trials I have
for scarcely a day passes
without a new "king"
showing itself. I work
at them and intend
to show you as a rule
two lamps or more
coming from here all
with good vacuums
well plated clamps and
low resistance carbonization
and no trouble.

Hammer will send
you in some curve

THE EDISON ELECTRIC LAMP CO.,

8

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

sheets in a day or two
that show we are
making fair lamps.

There are no great
extremes for go at
first and we have
had some last so
exceedingly long as some
of those tested at the
laboratory. I am going
to work up some curves
of the various processes
on the pumps.

I am going to try
to go in to New York
this P.M. to see the
Illustrator Yours Truly T. A. Edison

6-42-1881
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 20 1881

Dear Mr. Edison

We have
a number of resistance
lamps, so called on
hand. They are all
lamps that are slightly
injured in manufacture,
carbons spotted, odd
lots of bams, mercury
in globes and bent
carbons. These will
be useful to light
company to furnish
resistance to be used for
burglar alarms &c. We
can sell them at 25 cts.
Yours Truly Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 20 1881

Dear Mr. Edison:

I saw Mr. Bennett yesterday regarding the Peters works. There is a good chance to buy. He says that they will give very liberal terms, and that we can probably secure the place for next fall, for \$5,000.

Then partial payments can be made. He wants an offer from you of something.

We can use the buildings and the

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 1881

Locations for labor is very good. There is no question but that the buildings cost much more than we shall have to give. They claim that they can show \$136,000 in bills. I wish you would see it.

I think the Passaic works are not very promising the labor market cannot approach Newark. Then nearly everything is for sale which looks bad.

Yours Truly Francis R. Upton

Very cordial offer

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 21 1881

Dear Mr. Edison:

Yesterday
Tuesdays. run ~~some~~ of
carbons were tested. There
were 371 A and 663 B all
good except about fifteen

We have been compelled
to give up two lamps
at a time on a pump.

There is a great deal
of labor in making
double stocks and
considerable leakage. The
main reason is that if
a lamp is leaky
the good lamp on
the stock is as apt

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 1881

to be sealed off as the
~~bad~~ ^{good} one, and then,
if a partial vacuum
is made ^{the air rushing in} it is very
apt to break the carbon,
when the tube on top
is broken. We are having
quite a number of leaky
lamps owing to breaking
in of new hands and
it has spoiled our
runs. More practice will
stop that.

Another reason for
changing is that with
two lamps on a stock
the blow at the clamps

THE EDISON ELECTRIC LAMP CO.,

3

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

lingers much longer.
It seems as if
the air was drawn
out of one lamp
into the other.

I find that as
the pumps are at present
we shall have to run
nights to get 1000 lamps
a day. I am going
to give Geo. Hill charge
of the night gang
and commence next
Monday. Besides
it will give me
a chance to test
lamps at night.

THE EDISON ELECTRIC LAMP CO.,

4

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

As the field is at
present we cannot
do 1000 a day and
give each a proper
test. Hurry does not
work on that job.

Yours Truly
Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.

Thos. A. Edison,
Chas. Dethlefsen,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 4/22/1881

Friend Holger.

Enclosed find
card of Whitney Jacob. with
quotation on back.

Also address of W. S. Gurnet
with quotation.

Through the kindness of
my Cousin in Philadelphia
I obtained the enclosed
quotation

Hoping it will be satisfactory

I am Yours &c

W B Holger

[ENCLOSURE]

| | |
|-------------|------|
| Carbony nkd | .80¢ |
| " boxed | 1.50 |
| " " | 1.40 |

This is the price at present
J. L.

65¢ per cash
it taken
and 1.50

Henry P. Penness
24 S. Second St
Philadelphia
P

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 25 1881

Dear Mr. Edison:

Saturday
we had trouble again.
Our cables are the
old ones from above.
I gave special care
and instructions when
they were laid but
in spite of that a bad
place escaped. It was
one of the places where
a side cable had run
and a piece of wire
was left. This happened
to come on a corner
and had perforated
the covering and made

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

contact with another
cable. An arc formed
which set the insulation
on fire and made
some smoke under
the engine room floor.
The fire was put
out at short notice.

The fall tubes of a
number of pumps 18
in all were broken
and the mercury jumped
up into 150 lamps.

I am having all
the cables dug up
today and will have
a thorough examination

THE EDISON ELECTRIC LAMP CO., 3

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

made of them; this was done when they were laid but apparently not thoroughly enough. The loss of Phillips is not as great as it would seem, since those that break are the cracked fall tubes that would go in a few days. Last week we sent into Photometer room 2534 lamps 1964 A and 556 B 14 Patent models.

THE EDISON ELECTRIC LAMP CO., 4

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

I think you would do well to examine the Petos place personally as to pass judgment on it. The property is extremely valuable and they are anxious to sell. They have money enough to give you liberal terms as they give up the business.
Yours Truly
Francis R. Upton

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 25 188 1

Dear Mr. Edison:

The engineer
I have now wishes
to learn how to take
charge of the dynamo
machines and to run
them instead of firing.

Before doing anything
I wish to know if
you have a place
for the young man
now in charge named
Geo. Hickman. He
was at the laboratory
and is quick and
observant, knowing
the points. I do not

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

wish to let him
go out of the Edison
Light Co's employ as
he knows how to keep
brushes and commutators
in good order.

It will make
it much pleasanter
for the engineer if
I can tell Hickman
that you will have
a place for him.

Yours Truly
Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Manlio Park, N. J.,

April 25th 1881

J. A. Edison Esq.

76th Stth New York

New York

Dear Sir,

Please order from
Johnson Matthey & Co. at
Earliest convenience,
5 lbs. (or 2) Twine Thousandths
Platina wire. You were
going to write them about
price and we thought
it best to have this order
go through you.

Very truly Yours
Edison Lamp Co,
Dyer

Office of **Arthur Devine,**

179 MARKET STREET.

DEALER IN

New Jersey Real Estate, Bonds and Mortgages.

REAL ESTATE AT PUBLIC OR PRIVATE SALE

COMMISSIONER OF DEEDS
AND
NOTARY PUBLIC.

Newark, N. J. *April 28* 1881

My Friend & Cousin

Dear Sir

on my return from New York. I called on
Mr. Stetson, and he said he would be glad to
have the Carbach for the Building of the Hotel
depot at the Meeting of the Board of Managers
of the Erie Manufacturing Co. the 27th and, as
Mr. Stetson said, he would be glad to have a report from you
of the Carbach. The Carbach Corp. has been
and have the Board adjourned to meet again
on Monday hence I have given you the Carbach
to meet them on offer for their consideration
on Monday 27th.

I wish you would telegraph
Mr. Sommers the Carbach Corp. in the afternoon
(tomorrow) to meet me at the depot time 2 1/2
and endeavor to have it arranged that
you can see the Carbach Owners & other
pieces of stock in the year old names.
Believe me to be your truly A. D. Devine

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 28, 1889

Dear Mr. Edison:

I send
you six plumbago
lamps. The main source
of delay has been the
lack of glass to make
inside parts of the size
required, and to find
the proper way of putting
in the three wires.

You will notice
in two lamps
above the clamps
a hole. I do not
know the reason
for this they were
so before going on

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

the pumps. When heated
the outer scale of
gas carbon flakes
off as you may
notice. The carbons
show unequal thick-
ness or resistance as
one side is higher
temperature than the
other

Yours Truly
Francis R. Upton

[illegible]

Prabury May 3^d 1881

T. A. Davis Esq.
Carey St.

that the Gasoline vapor is In a great many instances
decomposed thoroughly, the formation of black
yielding all its Carbon in Carbon and after shining as
the form of black powder, soot is going on around
all a dirty red I get carbonaceous and it took me
at 85 I had several times a great deal of lime and
Acid in the temperature began to increase this
to nearly white I lost them differently. But I don't den
down to form 90-80-25 to pretend that I am pro
thine, all measured cold, it entirely changes Jordan
decomposing the Gasoline the substance of this na-
as above described at any place it first begins ex-
low temperature it is most true. If indeed use the
entirely composed of its Carbon, rather I presumed that
the constituents of the Gas & Hydrogen Gas should
leave the usual being not deposit Carbon below
only Hydrogen and Carbon the temperature of the
Acids, At higher temperature formations. Thus I found
it only yields a comparatively my Gasoline vapor through a
small part of its Carbon that the remaining is condensed
thus in the heated form. observed where temperature

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic H. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 4 1881

Dear Mr. Edison:

We have tried ~~one~~ number of lamps where the clamp was heated and found the results so good that each day we shall make 300 lamps in that manner. If after a few days trial it proves all right we shall make all lamps that way.

Dr. Haid has just sent down 75 of the finest bamboos I have ever seen treated.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

They are now being put in ~~carbon~~ clamps.

He says he can make 100 in two hours in the gas furnace he has above. I put the argument about paper thus to him. A lamp costs 20 cts.

The difference between a paper loop and a bamboo loop is about 2 cts. in cost. As the life of a lamp depends entirely on the carbon if ~~that~~ the bamboo is 10% better we have saved the 2 cts..

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Bamboo is far more
than ~~20~~ 10% better
than paper.

None of the lamps
are now bending since
I have had them inspected.

Monday we made
880 lamps. Tuesday
560 stopping at 7-30 P.M.
Today I expect 700
lamps 400 of them to
stop at 10 P.M.

I do not want to
run nights until I
have about 2000 lamps
ahead of the pumps
so that I can change

THE EDISON ELECTRIC LAMP CO.,

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Menlo Park, N. J., _____ 188

for several nights in
succession.

As we have only
200 pumps running and
light only 80 lamps at
a time I feel quite
sure that I can get
1000 lamps from the
three lines with our
gang, when we have
more pumps and current.

Bradley has his
fixture for making
rocket under trial.

We have made some
few changes but feel
sure that we can

THE EDISON ELECTRIC LAMP CO.,

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Menlo Park, N. J., _____ 188

make a fine socket.

Albion is trying various mixtures and Bradley is going to see how those with porous work in practice.

Dr. Nichols is making a full set of tests to see if the resistance of the lamps is lower.

I will send you his results in a day or two. We know that it has come down at least three Ohms in two weeks, due to better carbonizing and

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
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Edward H. Johnson.

Menlo Park, N. J., _____ 188

methods on the pencils.

I think it would be advisable to make our lampbo loops thinner so as to get 100 Ohms in place of 95 that the last lot have tested. We find great difficulty in being certain as to resistance as we have no standards here.

Yours Truly,
Francis R. Upton.

Office of Arthur Devine,

179 MARKET STREET,
DELAWARE

New Jersey Real Estate, Bonds and Mortgages.

REAL ESTATE AT PUBLIC OR PRIVATE SALE

GUARANTOR OF DEEDS
AND
NOTARY PUBLIC.

Newark, N. J. May 4th 1888

J. C. Edson Esq

My dear Sir

I have been
since I got your offer working like
a badger to bring the owners of East
Newark down to your figure and
I think I have come very close
to it. They die hard, what cost
136,000 to cut for 50,000 seems
to them a big discount, but I will
have the pleasure, I hope to meet
you tomorrow Thursday 5th at 2 P.M.
your Office to tell you of my work
and hope it will prove satisfactory
to you.

Very truly yours

Ans. Mrs. Emmet

Will give ^{Said I would take it}
 \$50,000 - copy

\$30,000 on bond & mortgage
 6 p.c bal 5000, down 5000,
 90 days. bal one year

Leaves boiler, Engines & lighting
 all appliances other than what
 is peculiar to the oil cloth by
 All assessments, Taxes,
 water rates, &c paid =

Clear title, clean up building
 money to be paid & bargain,
 closed Aug 1 1881

will give ^{Edison} \$52,250. and a ^{copy} of \$50,000
 \$5000 down. 5000 Nov 1st - bal 1 year from
 Nov 1st

T. A. EDISON,

Menlo Park, N. J.,

May 6th 1889.

F. M. Edison Esq.

Dear Sir:

I have made about 500 Pemberton
(A) which all measure 190-200
while cold. I am going now to
try experiments whether I can
bring them down to the desired
over overtures of 25 hours.
It seems hardly possible if
you refer to the A Pemberton, the
lowness and to cold measure.
The soon as I shall have a result
I will report.

Believe me yours very
respectfully

Ed. A. Edison

✓ ✓ ✓ ✓ ✓ ✓ ✓
✓ ✓ ✓ ✓ ✓ ✓ ✓

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., *May 6* 1881

Dear Mr. Edison:

The reports are still favorable for heating the clamps. I think a day or two more trial will settle the matter. I have found that it is best to give any experiments on the pumps several days trial as there are so many conditions to the problem, weather, state of the mercury and whether those working have been ~~and~~ up late the night before. I am keeping

THE EDISON ELECTRIC LAMP CO., 2

Thos. A. Edison,
Chas. Batchelor,
Freddie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 1881

a record of fifty pumps showing the time that it takes to exhaust various lamps and form. that I shall divide.

The furnace is now well under way. I have all the castings on hand and wrought iron piece.

I kept the masons off until every thing was assembled so that there should be no delays.

Dyer will go into New York with a full abstract of our accounts

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Dickinson,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

showing how we stand
Monday or Tuesday of
next week.

We shall probably use
plaster of Paris to make
our sockets with. I
think it will be strong
enough; as the lamp
is fragile I do not
see why we need put
a stone like socket
on it. Then if we wish
to reclaim the brass
pieces, we must be able
to break up the socket
without injuring them, which
we could not do

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Dickinson,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

If we need a very
hard cement. A small
amount of glue with
the plaster makes it
much less porous and
quite firm. I will
send you samples and
estimates of cost about
the middle of next week.

Yours Truly
Francis R. Upton.

| | |
|---|---|
| AGREEMENT FOR THE SALE OF PROPERTY.
The above mentioned
being Company,
with
Thomas S. Edison,
dated May 9, 1887. | AGREEMENT FOR THE SALE OF PROPERTY.
The above mentioned
being Company,
with
Thomas S. Edison,
dated May 9, 1887. |
|---|---|

AGREEMENT—For the Sale of Property.

MATTHEW PLUM, Law Blank Publisher, Newark, N. J.

606
Articles of Agreement, made the *ninth*
 day of *May*, in the year of Our Lord One Thousand Eight Hundred
 and Eighty one. **Between The Edison Manufacturing**
 -ing Company,

of the *City* of *Newark*, in the County of
State, and State of *New Jersey*, of the First Part;
 And *Thomas S. Edison*,

of the *City* of *New York*, in the County of
New York, and State of *New York*, of the Second Part;
Witnesseth, That the said party of the first part, for and in consideration of the sum of

Fifty Two Thousand Two Hundred and Fifty Dollars
 to be paid and satisfied as hereinafter mentioned, and also in consideration of the covenants and
 agreements hereinafter mentioned, made and entered into by the said party of the second part,
 doth agree to and with the said party of the second part, that *they* the said party of the first
 part, will well and sufficiently convey to the said party of the second part, *his* heirs and
 assigns, by Deed of bargain and sale, with covenant of warranty free from all encumbrance
dated May 9, 1887, and delivered

as hereinbefore mentioned
 on or before the *day of* next ensuing the date
 hereof, all that lot, tract, or parcel, of land and premises hereinafter particularly
 described, situate, lying and being in the Township of *Harrison*,
 in the County of *Hudson*, and State of *New Jersey*:

known and distinguished on a certain map, entitled
 "Map of Lots in East Newark, for William Gillett," on file in
 the office of the Registry of Hudson County, as Book 7, p. 20
 (Fourth Eight), bounded easterly by Bergen Street, westerly
 by Hudson Street, southerly by North Street, and easterly
 by South Fifth Street, and measuring about five feet
 -wide feet on Bergen and Hudson Streets, and about two
 hundred feet on North Street and South Fifth Street, and
 being the same premises conveyed to said the Edison Manu-
 facturing Company by Jacob Sagaritz and others by
 deed dated May 16th 1870, and recorded in Book 206
 of Deeds for Hudson County, on page 112 re. To wit: with
 lot, engine, boiler, pumps, bell, hot air pipes, sufficient
 steam pipe to heat buildings known as Grand B. water pipe, main and
 branch leading, outside sewer, and large cistern in the same.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 10 1881

Thos A Edison Esq. D.

Dodkin

Made several experiments on the power of the Electric Current to carry liquids (water & sulphuric Acid) through a porous partition, from one to the other of the two legs of a U-tube. The lower part of the tube used, was 7 1/2 inch diam. the legs were about 1/2 inch diam. The glass was melted down into the porous plug. I had to use an air pump to draw the liquid into the tube, on account of the plug being so tight & close in texture. I used two Bunsen Cells, Rame two fine platinum wires into the legs. The action is so complicated, considering the Temperature, Porosity of the partition, strength of current &c, that it will require much work to find the proportion of current and work done.

I can not say positively that an action does, even occur, but think there is, although with the above amount of battery power the increase in either leg is less than that due to variation of temperature, between day and night. The ~~same~~ liquid would be carried as the metals from Carbon to Zinc.

Respt Yours

Edward G. Acheson

It was

6. 27 - 1881

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and RECEIVES messages only on conditions, limiting of traffic, which have been announced to by the order of the following message. Errors are to be made by the sender, and the Company will not hold itself liable for errors in transmission or delivery of messages. The Company is not responsible for any delay in the delivery of messages by request of the sender, under the conditions named above.

A. H. NEWTON, Secy. *205* MARTIN GREEN, President.

Date *Newark, N.J.* 188

Received at *791 BROADWAY.* *May 10*

Edison

save

READ THE NOTICE AT THE TOP.

*at your office
this four pm
with contract try
to be on
hand have had
lots of trouble
Jno M Burnett*

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

1886 m Direct Wires.

T. A. EDISON,

Menlo Park, N. J., May 10th 1881.

Mr. Saml. Insull

Dear Sir,

Your letter of the 6th has just come to hand the Maxum lamp which you sent out to me I tested and found the cutm was so badly clumped that as soon as (it was) brought up to a reasonable incandescence an arc formed fusing one of the clamps and wire and breaking the carbon. After we were through with it Mr. Upton gave it to me and I had it set in a socket to keep as a curiosity the lamp or what remains of it is at my home in Newark. If it has any value in its present condition I will send it to you when I return.

know at the end of the week
please inform me if you
wish it

Wm. J. Hammer

E. J. Young &
1001 May St
Stamford
as a member
Young &

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

May 11 1881

Mr Thos A. Edison

Dear Sir

Mr. Upton has requested me to make a report to you of the present average resistance of our "A" lamps. We find the resistance of the lamps as at present turned out, to be 94.6 ohms that being the average taken from 200 A lamps manufactured about April 28. The resistance was calculated from the deflection of the electro dynamometers, standardized and corrected from time to time by the opposition of copper test; and the measurements were further checked by substitution of coils of known resistance for the lamps, and comparing the resistance, ^{of these coils} as denoted by the instruments, with that found by the use of the Wheatstone Bridge.

I think therefore that these measurements as represented by the above value, are trust worthy. They indicate a falling off of the average resistance of the lamp since March, off about 6 ohms.

Yours very truly,
J. E. Nichols

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie B. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept 12 1887

Mr. J. C. Edison

at 1st St.

New York

Dear Sir,

The following is a copy
of Dr William Thomson letter-
notation to Langbe sent me on
April 18th

I was received the
box containing the 40 Edison
Lamps which you have sent.
Good as to forward to me for
experimental purposes. They are
now unpacked and have reached
me in perfect order.

The tests which I think of apply-
ing to them shall be proceeded
with at once. May I beg you
to give my best thanks to the
Edison Light Co. of New York and
to Mr Edison, for their great kind-
ness in placing at my disposal

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Such a large number of their
Lamps I shall have much pleasure
in providing as soon as they
are completed the result of
my trial which I hope will
show in all respects satisfactory.

Believe me

Yours very truly

William Thompson

care of Mr. Edison

Edison Lamp Co.
d/t

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Hatcheter,
Francis T. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 17 1881

Dear Mr. Edison:

Your letter regarding the lamps with ground glass, came in tonight's mails. Holzer is making two or three this evening so that Logan will start grinding them the first thing in the morning.

The 16 candle lamp struck 3.00 hours this P. M. and no more gone.

Yours Truly
Francis T. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J. *May 20* 1881

Dear Mr. Edison:

The
lamps with ground
inside parts are under
way. It took some
little time for the
man grinding them to
get his hand in. He
has given us one good
joint. I shall hurry
them as fast as possible.
I am going into New
York today and shall
see the Dixons regarding
plumbago forms. I think
that they are going to
work perfectly satisfactorily.

20 THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J., 188

The carbons do not
come out short legged
and there are no signs
of giving out as yet
in those we have made.

We have a fire in
the new furnace and
expect to start Monday
with fibres.

Bradley has his new
six inch cutting mould
working on $8 \times 13\frac{1}{2}$ ~~two~~
and he says that
the mould is very
fine

Yours Truly
Francis R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 23rd 1881

J. A. Edison Esq.,
#65 5th Ave.,

New York

Dear Sir,

We received word from
Mr. Thompson that the lamps we
sent him were received in good
condition. We charged them to
Dixiel Morgan Co. but have not received
any word from them relative to the matter.
Shall we write them again or will
you drop them a line. They may
understand it better. Mr. Goddard writes
for full statement of lamps from the
commencement. No invoices were ever
sent to the E. E. Light Co. unless they
passed through Mr. Carnauwe's ^{hands} and
checked by him. It will be rather
a difficult job to designate when
most of them went but we will get a
statement out at once. About your going
to have our jacket business patented?
Yours truly Edison Lamp Co.

Received of Mr. J. H. Brown
 \$100.00
 Cash
 J. H. Brown

E. Lamp Co.

29th May 1881

to Lamp Co.
 sent to Mr.
 W. Thompson

[Extensive handwritten notes and scribbles covering the right side of the page, including names like 'J. H. Brown' and various illegible cursive text.]

John Lamp Co.

THE EDISON ELECTRIC LAMP CO.

1881

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 25 1881

Dear Mr. Edison:

I wish you would make arrangements to give us a little money. Our bills are running back some time and we shall soon hear complaints.

Bradley fibre cutting moulds are very fine, he says they are perfect. They worked first off much better than the best one made at the shop after it had been fixed two or three times.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Our eccentric works well. I hope that it ends our troubles with the engine.

I spoke to Dr. Small regarding the bills of lamps from us to Electric Light Co. He will send them to us if you so wish it.

Yours Truly,
Francis R. Upton.

Handwritten: D. J. D.
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Davenport,
Francis H. Upton,
Edward H. Johnson.

Handwritten: R. S.
Meno Park, N. J.

Handwritten: May 25 188*5*

Handwritten: A. X.
Dear Mr. Edison

Handwritten: Lawson
has coated wires with
various materials to keep
them from flating, this
far with poor success.

He cannot place
any substance around
the wires near the glass
that carbonizes, for
when the clamps are
heated this is also

Handwritten: heated
Yours Truly
Francis H. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 26 1881

Dear Mr. Edison

Bradley
and I went to
E. Newark this morning
with Campbell our
carpenter. We have laid
out benches for him
in the upper story of
the unoccupied building.

Tomorrow we shall com-
mence fixing them and
he hopes to get
packed so as to move
next Monday. I will
have a car here
and put all in it
Monday and Tuesday

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 26 1881

I will unpack it at
E. Newark.
Bradley will take
care of the help with
him so that he can
start without any stop.

We took the first
heat out of the new
furnace yesterday and
the carbons were all
right. Tonight we
are going to put in
evening furnace we have
and see how it
works.

Yours Truly,
Francis R. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 28, 1881

Dear Mr. Edison

The 16
candle lamps have
now struck 480 hrs
and the same two are
gone and no more.

I have just examined
the globes and find
them very clear, in
all but one instance.

I have reorganized
the engine gang by letting
Parker and his friend
go. They enjoy sitting
down too much and
have failed once or
twice to do the right
thing.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Mr. Bradley has now
everything packed and
nearly all in the car.
He will start outting
Tuesday morning, all his
help goes with him.

The lamps that with
cartons which were
high resistance due to
low final heat are
all right. They are
making a fine curve
and their resistance
is low.

Yours Truly
Francis H. Upton.

FEDERAL
COUNSELLOR AT LAW

795 Broad Street

Newark, N. J., May 31, 1887.

J. B. Coker, Esq.
Vice President,
Chen Co.

~~Receipt~~ Acknowledge the
receipt, on my return
from an absence from
business of a few days,
of your favors of the
24th & 25th inst; the
latter enclosing Mr.
Edison's mortgage for
\$17,000. Please say
to Mr. Edison that whenever
he will pay off his note
for \$5,000, the Chen Mfg
Co. will pay off the
\$15,000 mortgage, & give
him a clear title.
Yours very truly,
J. Adams.

1
Buenos Aires, Argentine Repub.

June 4, 1881

Mrs. A. Edison Esq.,

E.E. Langhols, Mount Pleasant, N.J.

Dear Sir:-

Having been ill at the time of the sailing of the last American steamer from Rio de Janeiro, I failed to report progress as I should have done.

Since my last, written from Rio, I have examined the different kinds of bamboos, and other fiber producing plants from Rio, all along the southern coast of Brazil, and as far as this place. I regret to say that out of seven different qualities of bamboos, large enough to serve your purpose, there is not one that promises as even straight and regular fiber as that of the Asiatic specimens sent me in your letter of March 4. The surface is generally rough and the grain open and irregular. Or and about Rio de Janeiro, but more especially, in and about the city of São Paulo, some of the Asiatic bamboo is grown as hedge, and if I had taken the time to look it up in very small quantities cut it and dry it, I might have been able to send you a half a ton or perhaps a whole ton from the latter place. But it is quite impossible to get this smooth bamboo, the kind you are already receiving from Asia, in any quantity in Brazil, at any price whatever. The Brazilians cannot be

said to cultivate this bamboo. They plant it for hedges but that is as far as their care of it goes. They would tell you that this is a native bamboo, but it is not.

Of the native kinds I have collected samples, which I have not sent on principally because it is so evident that they cannot serve your purpose. I have kept them all however, and will send them together with a number of palm and other fibers, when I return to Rio de Janeiro.

I find on my arrival here in Buenos Aires that the reports of large bamboo far up this river, are well founded. I only arrived here yesterday, and on the 10th. I expect to leave Montevideo for Cuiabá or any other point toward the head of navigation that is likely to give the most satisfactory results. From my own observations and from what I can gather from the people living here, it would be immensely more advantageous to find the right kind of bamboo or other fiber on this river and in this Republic, than finding the same material in the Brazilian Empire. In the last named country, I have been treated with universal kindness. Officers of state have given me letters and aided me in every way in their power; in short their hospitality has been unsurpassed. But as far as you are concerned, that is not to the point. It has aided me to carry on my observations satisfactorily, but I have found at the same time, that where any kind of labor is involved nothing can be ex-

parts of Brazil. In the first place, the natives are ignorant of the value of money, and except in certain localities, like the mining regions and in the sea port towns, it is with the greatest difficulty one can hire a common laborer; and even then he feels under no obligation to remain with one a minute longer than he may choose to do so. On the lower Amazon where the only work is that of rubber gathering, unskilled laborers can make such enormous wages cutting the rubber trees that they cannot be hired for money. Of this however, I will speak more fully in my final report.

I have seen the palm producing the peculiar fiber called "piassaba", one kind of which grows at Bahia. There is nothing new to report about it, as you have already had and experiments with it. I have been shown another quality of palm fiber from the upper Rio Negro in the valley of the Amazon, and not of the kind generally exported from that region to England. The specimens I saw were smooth, straight, of an even size almost from one end to the other, and of a light or ~~only~~ ashen color. There are some of the finest or rather largest bamboos in the world growing on that river also, and on the Orinoco, and I had decided to go at once to that region as soon as I return from this trip up the Rio de la Plata, unless otherwise ordered by you in the meantime.

I have written hastily to catch to-day's mail by way of Europe. Altho the report is not a satisfactory one, it will serve to show that from the Cape of St. Roque to the mouth of the Rio de la Plata, nothing can be expected. After exploring this river, I will finish the Amazonian region, and then go to the West Indies via the Rio Orinoco, subject to your orders and suggestions.

The money allowed me is sometimes too much and sometimes not enough, so that I just manage to make both ends meet. I have not sent on any report yet for the reason that in changing from one country to another, I have been dealing with so many different currencies that I am not able to reduce it all to dollars and cents without considerable labor in which I am not skilled. The money is drawn in pounds sterling, and has been used in Brazilian, Montevideoan, and Argentine currency. I thought I was a ruined man yesterday when I was charged \$100. for getting on shore and £50. for breakfast, but I felt a little better when I found that it was all only about six dollars in American money.

My address till further notice remains,
To O.C. James, Rio de Janeiro, Brazil.
Telegraphic Address "Branner", Rio.

Yours truly,
John L. Branner.

Harrison June 7th

Prof J. A. Edison

Dear Sir

I have send you a duplicate
of Specifications Submitted to
Builder to be used
to include Carpenter work &
Plumber work as follows

As follows



The Portion of wall to be Lathing
down as indicated by dotted
line

2

All the new Portion of Brick Wall
beginning from top of 3rd floor Beam
to be a 12" wall

To have 3 windows on the 2nd & 3rd floors
to be 3' from Base of window to floor
on north end of building

^{1st floor}
To have the wooden Portion of flooring removed
the cement flooring extended to Base of both
End wall To have 1 brick pier on foundation
for column on Port to rest on same as
those already there & to be the same
distance apart

The wall to Extend above roof same as
Portion of wall now standing & to be
Built in same manner

To have same bar on west side cut
down to level of cement floor

We also Bricks in for
the wide Gr & finish remaining
Portion of wall white new ones

3

The Column or Posts that support 2nd
floor to be 10" x 10" yellow Pine white caps
as above

The Column that support 3rd floor to be
yellow Pine 10" x 10" white caps as above

The Column that support roof to be
yellow Pine 8" x 8" white caps as above
all columns to be painted white

The Sinders under 2nd floor to be 10" x 14"
" " " 3rd " " " 10" x 12"
" " " roof " " " 10" x 10"
Not Planned to be all Spruce

2nd floor Beams to be 8" x 16" 2' from center to center

3rd " " " 8" x 12" " " " " "

roof " " " 8" x 10" " " " " "

2nd & 3rd floor to have two rows of
bridging each; each side of Sinder
roof Beams to have three rows
of bridging each side of Sinder

Roof Boards to be hemlock 1" thick
for Travel roof

To have one Good Strong Panel Door
for main Entrance on west side
which suitable looks 4' x 6'

To have five ordinary panel doors
for other door ways No Locks

To have Stairs white yellow Pine
step & white Pine rise or treading
4' wide



Flooring to be All Spruce 1 1/2" thick 4' wide

Flooring to Be Anchored to
Wall shown on the formaly
where

Stairs to run up on west
side of Building Beginning 4'
from Base of main Entrance

5

Windows Each 18" Thick & Light
10' x 12" Be Each to have
Some Means of fastening to
hold window up or open

Remove the

1 cement floor on 1st floor
only

Windows above 2nd Floor
Altered

All timbers to Be Good Sound
& Strong

All to the flooring & Stairs
to Be Sound & Strong

Please Note when receiving
Bids that Carpenter & Mason
work is included in Bid
or otherwise specified.

As they are supposed to
include the whole in one
bid

This I think is all in
essence

Fresno

John W. Smith

Director

J. W. Smith

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., June 8 1889

Dear Mr. Edison :

The lamps at 16 candle are going still. the 10 per H.P. have 146 hours the $8\frac{3}{4}$ per H.P. have 635 hours this morning.

Our engine troubled us this morning by heating the crank pin.

On examination the Babbitt metal was found to have melted. The engineer is now rebabbitting the collar and expects to start this afternoon. The trouble is, that if the oil is too free ~~soon~~ it runs out the oil in the twenty

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

two hours run or if it becomes clogged ~~at~~ ^{the} pin tends to heat. There is no provision on it for continuous oiling.

I am going to get a larger oiler.

Yours Truly
Francis R. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batoholor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., June 9, 1881

Dear Mr. Edison:

I went to ^{Yesterday} Newark to get a new oiler and see Burnett. He took me to see Mr. Peters regarding the E. Newark property. Mr. Peters wanted the sprinklers. I said they belonged to us. He then offered to exchange them for the heating apparatus over the boiler. I have examined the sprinklers and think we would do well to make the exchange. The sprinklers

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batoholor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

would be sure to be out of repair in case of fire since we never could try them without injuring all that is in the room.

I have written Mr. Peters that we will exchange. I have very little faith in fire pumps and apparatus in a place where there is so little danger as with our business. They are too apt to be out of repair.

We got the engine working by

THE EDISON LAMP CO.,

3

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

noon yesterday and
ran until 5 the morn-
ing with water running
on crank pin.

The 16 candle lamps
have 652 hours and
eight going, and 162
hours and eight
going. The glases of
the $8\frac{3}{4}$ per H.P. are
beginning to smoke and
the candle power is
now between 15 and
16. The 60 per H.P. are
clear and all hold
their candle power.

I send you Dr.
Nichols report on the

THE EDISON LAMP CO.,

4

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

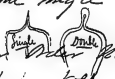
single and double tips.
The lamps that have
given out I have laid
to one side for you
to examine. They show
very little difference from
the others.

Yours Truly
Franklin R. Upton.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., June 8 1881

Memorandum - On the value of the single
double sealed tips - for lamps - 
One hundred of each kind, under No's
297 and 298 respectively: were tested for volts in
at 1/6 candles. April 28; laid aside for more than a
month and retested June 6. -

Most of the lamps remained unchanged.
One lamp of each kind lost vacuum completely.
Three of each kind showed a decided loss of
vacuum (causing a change of E. M. F. of over
10 volts.)

There were no other lamps which had shown any
decided change. -

From this test no advantage of the double sealed
tips is apparent. Before deciding that the single
seal is perfectly satisfactory, another careful test
would be necessary.

E. L. Nichols

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

June 9, 1887

Dear Mr. Edison: Mr.

Adams and Hargreaves
of Holmes, Booth and Hargreaves
were out here this P.M.
They wanted to see
about the wire for
Johnson.

Dr. Nichols has been
testing the fall of E.M.F.
on the 16 candle lamps.
He tested the main line
where the lamps are tested
and the line where
the lamps are. He finds
that there is a fall
between the photometer
table and the line

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

1887

where the lamps are
of from $\frac{1}{3}$ to $\frac{1}{4}$ Volts
in the 150 Volts. This
would make a difference
of $\frac{1}{8}$ of a candle

Yours Truly
Francis R. Upton

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

June 9th 1881

T. A. Edison Esq.

Dear Sir,

*We send two lamps
by Mr Wm. Hammer to
you for Patent Office
Please send order for
same at earliest
convenience.*

*Yours truly
Edison Lamp Co.*

1 2 3 4 5 6 7 8 9 10 11 12

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., *June 13* 1881

Dear Mrs. Edison:

I see
you have marked
45 cts. as the price
which we shall charge
Col. Gouraud's lamps to Drexel,
Morgan & Co. I think
50 cts. is as low as
we can furnish them.

Though we are making
lamps now at a cost
of less than 35 cts. counting
the whole number
made, yet as we can
only sell certain Volts
it leaves us with a
large number on hand.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

If these are not paid
for from those we sell
we shall run at a
loss for some time to
come.

Besides this The English
Company have now the
full benefit of all
the money we have
expended to perfect
the manufacture, and
has not as yet paid
anything towards it. If
we give them the lamps
at a low figure we
cannot ever make
them pay anything to-
wards these expenses.

THE EDISON LAMP CO.,

THOMAS A. EDISON,
CHAS. BATESOLAR,
FRENCH R. UGLION,
EDWARD H. JOHNSON.

Menlo Park, N. J., 188

More than this, if
without their asking
we reduce our price,
we have less inducement
to offer for them
to give us a larger
order and ^{more} liberal terms.

Am I to understand
your order duplicating
the Paris order to cover
all the experimental
lamps.

Yours Truly
Francis R. Upton.

C Lamp 2.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., June 14 1887

Mr Paul Brissal
65 Fifth Ave.
N. Y.

Dear Sir

I will be pleased to prepare
the case you wish; but it will be nec-
essary for you to write Bradley at Newark
to send to me or to the Laboratory the material
to make it of. Tell them to send 6 samples
of each operation in making both the 6 in
and 3 in carbons.

Yours truly
J. E. Acheson

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., June 15 1881

Dear Mr. Edison:

I went to Watbury Tuesday and think I have straightened matters. They will change the screw so as to make it right. They evidently have waked up to the importance of keeping our orders for they were willing to do anything that we might wish.

Of the 8 $\frac{3}{4}$ per H.P. lamps the third one of the set went yesterday afternoon at 761 hours. The others are now burning at 774 hours.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

The 10 per H.P. have
eight going at 268 hours.
I have thought a
good deal over a conversa-
tion you and I had regard-
ing isolated plants. You
then said that now the
main thing was making
the light reliable so
that it would never
go out. I agree with
you and have this
to add, beware of
vulcanized fibre and
copper dust. The old
machines break all
to pieces when taken
apart the fibre becomes

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

is warped. We lost
our exciter Monday and
several pumps, by this
not being tight enough
on the ends of the
commutator blocks to
hold them firmly, and
as they worked up copper
dust worked in. You
know with what results.
armature completely burnt
out.

Yours Truly
Francis R. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batohelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J. *June 16* 188*7*

J. A. Edison

Dear Sir,

Your Telegram
received, relative to table
for Paper Lamps.

Mr Upton being in New York
we gave the telegram to Mr
Hammer to attend to.
He has looked every where
and can not find it.

He thinks it must have
gotten into a lot of Plant
Estimates taken into
New York by Wilson Howell
several months ago. The
form of List of Lamps kept
by Herrick is in the books
taken into N.Y. by Horner.
Some four weeks since. We

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batohelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

will continue looking for
the table and if we
find it, will send to
you at once. We un-
derstand exactly what you
want and will find it
if it is here.

Yours very truly
Edison Lamp Co.,
D.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

June 26, 1881

Dear Mr. Edison:

Mr. Logan informs me that Sunday Dean sent out for commutator bars and wires. His messenger took the bars that had been ordered for repairing the machines for the lamp factory. He also took the wire and reels that had been placed in position for rewinding machines.

This has delayed our work. This morning one of the commutators were

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

June 16, 1881

though, doing no harm to the machine.

This leaves us with only one pair of .14 machines and an exciter, as there are no duplicate armatures for .14 that will fit the magnet to run with the machine that is now idle.

Yours Truly
Francis R. Upton.

no 5 1 C 2 4 6 8
Mr. St. ...
...

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., June 27, 1881

Dear Mr. Edison:

The plum-
bago forms do not seem
to do as well as we
hoped. The nickel weights
are attached in some way
making them very rough.

Dr. Haid says the plum-
bago is very pure and
thinks it is a reducing
action. Three or four
heats nearly spoil the
weights. I thought at first
it was impurities in
the plumbago; and Dr
Haid is now making a
careful analysis of
it.

THE EDISON LAMP CO., 2

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

I have asked Bergman
how long it would take
him to make 800 more
forms and he says two
weeks. I think it would
be well to have this num-
ber made, especially
as we are to run
it in the future. We
are compelled to wait
every morning for the
forms to cool before
work can commence
putting in fibres. To
run with economy
we should have
enough forms for
two days so that

THE EDISON LAMP CO., ³

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

one can be filled while the other is in the fire. By so doing one set of men could do the work.

I was at Princeton Saturday to borrow a galvanometer. I saw Prof. Brackett & Young. Prof. Brackett says that they built a machine with plates on the back end and ran it in May 1880.

It seems to me, that you would do well to look into the matter and get an offer from

THE EDISON LAMP CO., ⁴

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

then before the U. S. Co. hear of it. They like you and would rather you would have their rights than any one else. The longer the matter stands if there is anything in their claim the more expensive it will become. Don't send Wilton there for I think he is too sharp, and will make them sharper.

Yours Truly
Freddie R. Upton.

Menlo Park, N. J., 6/30 1881

Enclosure

Dear Sir,

We would like copy
of lease of Newark
property. The part relating
to payments and the
moveable part of that
goes with the property—

Very truly,

EDISON LAMP CO.

THE EDISON ~~ELECTRIC~~ LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

June 30 1881

T. A. Edison Esq.

Dear Sir,

We have been testing the economy
of the new A lamps (Paris order) with the
calorimeter and find as the average of
14 tests on lamps taken at random;

32.78 Hrs. Cps per minute at 16 candles.

This value which is within the "10 per hour" ~~per~~
represents fairly the economy of the new lamp
(at 100-102 volts). We shall make today tests
of the higher lamps viz 108 volts (London order)
and will report later

Yours truly

Edison Lamp Co

per

Michels

Guiaíba, Province of Mato Grosso, Brazil,

July 2, 1881.

Flores da Cunha,

Muito Obrigado, S. J.

Dear Sir:-

I arrived at this place, the head of navigation on the River Plate, on the 30th June, after having examined into the possibilities of the valley of the Plate furnishing serviceable bamboo. The reports I had heard about the large canes along the river were true, this far, that the canes here are of an extraordinary size, and are tolerably abundant, but they are coarse grained, and I fear they will not answer your purpose at all. I have arranged to have samples sent to you through for your own inspection. There are about four varieties of cane to be found in abundance, and six kinds of palms. Of the palms, there remains one kind to be examined yet, the *caissari*, which I from its general appearance, I imagine to be the best of the lot. I have not yet had time to examine it closely. I only arrived the day before yesterday, and most of the time since my arrival has been spent shaking with the intermittent fever I caught on the Amazon.

I brought letters to the President of the Province, and that gentleman has done all in his power to aid me in my researches. I will go from here to Diamantina in this province, where I shall try to get a canoe to take me down the Rio Tapajós to where I can take a steamer on the Amazon.

This trip will probably take about one month and a half to Pará, but I will be going across one of the most capricious watersheds in this country, and down into the valley of the Amazon, and besides seeing the fiber producing plants along a large river, I can see whether the best fiber grows on the high or the low land. On coming out at Santarém, if I find that my money will hold out, I will go at once to the Piassava district of the Rio Negro, and learn if it is not possible to get a light colored fiber from the palm that gives the ordinary black piassava.

In case some of the specimens I have shipped from this part of the country are found useful, the event will be five per cent advance on what has to be paid for getting the canoes out, and the freight are as follows to Buenos Aires.

From Tucumbá to Buenos Aires, 700 reis per ton, kilo
or 30 cents per 22 pounds

From Curumá to Buenos Aires, 400 reis per 10 kilos
or 20 cents per 22 pounds

From Açomaron to Buenos Aires, about 300 reis per 10 kilos
or 15 cents per 22 pounds

The goods in this case is delivered on board the company's steamer, along side of the vessel on which the cargo is to be taken to its destination or at other place.

It will always be necessary to reside at Buenos Aires and the voyage to New York ^{by steamer} from that place to New York is twenty eight days, making the cost

nation at Rio with the American steamer, leaving
that port on the 5th of each month. By sail the
voyage is one of months, and I am not able just now
to give the time. It is only rarely that a steamer
from Buenos Aires directly to New York, though when
a cargo is to be had, the Dampier and Holt Company
is always ready to send a steamer directly.
As far as freight is concerned, undoubtedly it would
be much cheaper to ship from the Amazon region.

The ^{is too short} time for writing any extended or detailed report
on my trip up to this place from Buenos Aires.

My samples will be sent on in about one month
from Rio de Janeiro.

The trip from here to Para will take from one
month to forty five days. There are forty leagues to
go overland from here to the place of embarkation
on the Rio Parana. ~~from~~ this will take about two
days including the time necessary to arrange a
canoe and men. From that place to Itaituba on the
Tapefos will take about twenty five days, and from
there I will probably be able to reach Para in ten
days.

My next address is J. C. Branner, Para, Brazil.
~~of New London & Brazilian Bank~~
P.O. Box 100, Para, Brazil.

Telegraph address "Branner, Para."

Hoping to hear from you soon, I remain

Yours truly,

John C. Branner

P.S.

Please write me at St. Thomas saying
whether I am to go to Cuba or to return
directly from there to New York. Address me
at that place, in care of the Agency of the
American Steamers.

J. C. Brammer

P. P. Upton

If you need
any particular
febre for a
camps you
had better
write Brammer

Do you ever
write him an
answer to his
letters

Edison

Brammer
July 17, 1887

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Babington,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., July 6, 1881

Dear Mr. Edison:

I have taken John Howell into the employ of the Lamp Co. I sent him today to Newark to start drawings of factory and plant. I shall keep him at this unless otherwise advised by you. Every thing was right when I returned this A. M.

The cables had not been buried deep enough and the pressure from heavy loads of coal had pushed two ~~boards~~ cables together.

Yours Truly Francis R. Upton

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY

This Company TRANSMITS and DELIVERS messages only on conditions which have been accepted by the sender of the following message. If the message is not accepted, it is not transmitted and is delivered by request of the sender under the conditions stated above.

A. B. BROWN, Secy.

NORVIN GREEN, President.

Dated *New York 1905* *Barry* *12*

Received at *791* BROADWAY.

St. Paul

65-5th Ave

READ THE NOTICE AT THE TOP.

*If Edison will not
at office eight this
evening telegraph menlo-park.*

J.R. Mpton

*11 paid
K*

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Menlo Park, N. J., *7/12* 188*1*

D. J. Insull

Dear Sir

*Will you please get
me a copy of Pelet's
Contract—*

Very truly,

EDISON LAMP CO. *X*

Answer

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upson,
Edward H. Johnson.

Menlo Park, N. J. *July 15th* 1887

J. A. Edison
#65 Fifth Ave.
New York

Dear Sir:

Enclosed find
letter from Mr. Serrell
Will you please send
order for what he wants
and return letter as.

Yours truly
Edison Lamp Co.

Edison Lamp
Co.

H. V. Adams
18th July 81

As to platinum

Dear Sir,
I am writing you
this morning
in answer to
your letter of
the 12th inst.

New York July 13th 81
The Edison Lamp
Co.
Dear Sir,
You wrote me
several months ago that
after some time you
would see me in regard
to Platinum, but not
having from me I have
taken the liberty to enquire
whether you are now
inclined to try our
goods and to place orders
with us. We are now
manufacturing a harder
Platinum yet than before.
That is to say of a quality
which contains 2 or more
times 10 to 12% Platinum
withstanding your thanks

[ATTACHMENT]

H. V. ADAMS,
39 PARK ROW, (TIMES BUILDING.)
P. O. Box 2595. NEW YORK. Room No. 7

Agent for

KOLBE & LINDFORS,

ST. PETERSBURG, RUSSIA.

Refiners and Smelters of Platinum, of any gauge, in Sheet and Wire.
Osmi-Iridium, Oxyd of Iridium.

Manufacturers of Retorts, Crucibles, Dishes, Tips, Etc.

W.R.

Diamantina, Province of Mato Grosso, Brazil,
July 17th, 1881.

Thos. A. Edison Esq.,

Edison Electric Lamp Co.,

Newark, N.J.

My dear Sir:-

I arrived at this place July the 13th from
Leucabá, distant about 100 miles. From what I learned at
Leucabá before coming here, I was induced to believe that it
would be cheaper and quicker for me to return to the valley
of the Amazon by going down the R. Tapajós from this place,
than to return by way of Buenos Aires and Rio de Janeiro.

But it is impossible to get trustworthy information here
upon any subject, without going to the spot for it. So I
find on arriving here, and after having brought every possible
influence to bear on the merchants who navigate the Tapajós,
that the voyage from here to Stachibá at this time of the year
is impracticable, very dangerous, and besides costing me the
time as much as I ought to pay, would require about two
months to be made in. I might have got around the matter
of expense, by taking only two or three men and a small canoe,
and the dangers would have taken care of themselves, but
my time is already so short, that I could not afford to lose
two months from here to Stachibá on the lower Tapajós.

The guaraná merchants sometimes send canoes down from
here in the month of Dec., when the water is high, and when
the wild Indians are inland. At present they say that the
falls are extremely dangerous, that the fevers are more so, and
that the Indians come down to the river during this the

dry season, and are more unhealthy than the fevers.
Seeing the delay that going across now would subject me
to, I judge it wiser to return to the Amazon region via
Rio de Janeiro, Buenos Aires, and Pará.

On coming to Diamantina however, I have been able to
see and get samples of the bananas of these highlands of the
tropics, and to see a number of palms under different cir-
cumstances. I will bring samples with me. It is my opin-
ion though that there is nothing here that can be called good.
I leave here to-morrow morning for Leuiabá, on my way
back to Rio de Janeiro, whence I will go to Pará by the
first steamer. In case I receive no orders at Pará to the
contrary, I will go up to the head-waters of the Amazon
to see what that region furnishes, and also to the piçarra
district of the Rio Negro, where I shall try to get the piçarra
va fish of a lighter color. After going to that region
my time will be about up; and there will be no time
left for me to go to Cuba. I will go there though if
you wish it, and will give me two or three months
more time and the necessary means. If you choose to
have me go to Cuba then, please telegraph me at Pará
and telegraph the money also. No telegram coming to
me then before the first of October, I will return to the
States directly.

Till Oct. 1, address me at Pará.

Cable address Branner, Pará.

Yours truly
John de Branner

WM. CARMAN,

Menlo Park, N. J., July 19, 1881

Samuel Inance Esq.

Dear Sir

Through

Mr Upton's orders I have received
\$41000 I now owe on the Buildings
at East Newark \$25000 of which
~~the Peters Mfg Co~~ hold the policies
of - Mr Upton understands the
whole transaction I write you
this as Mr U is away and
you might insure it over again
it is all straight and Dyer has the
policies except the 25000 when
Peters holds -

Very truly

Wm. Carman

POWER OF ATTORNEY.

E. C. Edison Lamp Co.
July 20, 1881
W. Reid Gould, Law Blank Publisher and Stationer, 130 Nassau St., N. Y.

Know all Men by these Presents, That
I, Charles Batchelor, of Menlo Park, County of
Middlesex and State of New Jersey

have made, constituted and appointed, and by these presents do make, constitute and appoint Thomas A. Edison of Menlo Park, aforesaid my true and lawful attorney for me and in my name, place and stead to make, enter into and execute in my name any and all agreements and contracts between The Edison Lamp Company, a corporation hereafter to be organized under the laws of the State of New Jersey, and the said Thomas A. Edison, and Francis R. Upton, Edward A. Johnson and myself, also any and all agreements and contracts between the said The Edison Lamp Company and myself and any other person or persons

giving and granting unto my said attorney full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises, as fully to all intents and purposes, as

I might or could do if personally present, with full power of substitution and revocation, hereby ratifying and confirming all that my said attorney or his substitute shall lawfully do or cause to be done by virtue hereof.

In Witness whereof, I have hereunto set my hand and seal the twentieth day of July in the year one thousand eight hundred and eighty one.

Sealed and delivered in the presence of

Samuel Insull

Charles Batchelor

State of New York,
COUNTY OF

ss. Be it known, that on the day
of and in the year one thousand eight hundred
before me

and acknowledged the above Letter of Attorney to be

act and deed.

In Testimony whereof, I have hereunto subscribed my name the day and year last above written.

Menlo Park, N. J., July 26, 1881
T. A. Edison Esq.,
Dear Sir,

We can let you have
boiler for the summer,
but I think we will need
it here this winter for
heating &c. —

Very truly,
EDISON LAMP CO. D.

Menlo Park, N. J., July 27, 1881
T. A. Edison Esq.,
Dear Sir,

Will you please send
us an order for
two spirit lamps to send
to L. O. Serrell for Canadian
Patents.

Very truly,
EDISON LAMP CO. D.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batheletor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., July 27, 1881

Dear Mr. Edison:

I had a conversation with Francis on Monday regarding the new machine. He told me the trouble that you met with in regard to spitting, at the same time cautioning me about mentioning to other parties.

Cannot come of the trouble come from the discharge of the magnets, if you use them in multiple arc with the main circuit. We have had trouble

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batheletor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

with our exciting machines where they have had no load to carry.

Your magnets are very large and have a great number of turns. The regular arc light machines put the magnet in direct line with the current and so have very few turns, where you have a great number.

The furnace works very well and the new blower is fair.

The blower gives ~~no~~ enough wind for a

THE EDISON LAMP CO.,

Thomas A. Edison,
Chief, Bachelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

place as large as the
Newark factory but
the pulsations are quite
marked in the flames
due to revolutions of
the fans.

We have lost no
hands by stopping and
have had plenty of ap-
plications for places if
any were vacant.

The tax assessment
of on E. Newark is
on \$40,000. Is there any
thing to say regarding
the amount.

Yours Truly
Francis R. Upton-

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., July 30 1881

Dear Mr. Edison:

The experiment you spoke of will be carried out as directed.

Yesterday we shut down for a day to get the carbons ahead and pick out glass for inside parts. The pumps were working badly for the first few days and we overhauled them and cleaned the mercury that remained in the stop cocks after drawing off from the pipe. Today they are doing better.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

We paid nearly all of the last arrearment for bills on July 16.

I am trying with some degree of success to bring bills down and make the output greater, yet at times for example this last week nearly everything has been pulling against me.

Yours Truly,
Francis R. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 1, 1881

Dear Mr. Edison:

I have instructed Dyer to send you daily report of outfit. Last week was the worst week nearly I have had since I have been here. Every thing was wrong and dragging and I am ashamed. This week will be much better I hope for I think I have pulled things together again.

I wish to ask you about discharging Welch. He has proved very unsatisfactory of late. He

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____, 188

is thoroughly lazy and given to months. Yesterday without asking me he built a fire and was running through some experiments for his own benefit after I had expressly told him not to do so. He would not have mentioned the fact to me if I had not found it out.

The only question about discharging him is that he will go to the opposition and that he has had his eyes quite wide open since he has been

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Bushnell,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J., 188

here. I can get good
carbons without him and
feel better satisfied.
If you will set an
hour when I can see
you I will call into see
you.
Yours Truly
Francis R. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 5 1881

Dear Mr. Edison:

When your letter came asking the question how 104 Volts on 125 Ohms can give ten per H.P. I was discussing the same question. Dr. Nichols tested the lamps, and said that they were 125 Ohms resistance, he also stated that they were 10 per H.P. in the calorimeter. His electrical tests showed only nine per H.P. I knew the lamps were tested by Copper deposition standards and that we were keeping

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 1881

the marking the same. That is we were marking lamps 105 Volts & weeks in and weeks out that would test 105 Volts, for I would have old lamps retested at frequent intervals.

During the past week Marshall and Howell have been working over all the constants of the instruments and testing the lines by means of instruments borrowed from Princeton and we found that Dr. Nichols has been out in his measurements of the resistance of lamps

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

so that they ~~now~~ ^{are} test
now considerably higher
than before. I am not
yet prepared to give
exact results yet, but
can say that 140 Ohms
is nearer to the resistance
of the lamps than 125 Ohms.
I therefore think that
you will be satisfied
with 95 Volts $8 \times 13 \frac{1}{2}$
A. lamps for Paris, of
which we can now give
you with the range
you mentioned all packed
Of 92, 93, 94 Volts 88 lamps
95 44
96 108

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

97 Volts 200 lamps
98 228 -
with about 200 lamps in
the photometer room.
We can give you all
you may want of lamps
 $8 \times 17 \frac{1}{2}$

I am sorry that we
should have made any
error but I knew that
which ever way the truth
was it would be more
favorable to the lamp.

I am going to hang off
Monday, Tuesday and
Wednesday of next week
and during that time
I shall have all the

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THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

connections even in the
Photo room; we are very
sure that the Helos are
good and will soon be
sure regarding the resistance.

We take copper as our
guide and think that
we have marked lamps
to be relatively right.

I shall be in New York
this evening.

Yours Truly,
Francis R. Repton.

Aug 13
FREDERIC ADAMS,
COUNSELLOR AT LAW,

rec'd
755 Broad Street,

Newark, N. J. Aug 13, 1887.

13.8.87
J. A. Edison Esq.

No. 65 Fifth Av.

Dear Sir,

The Edison Lamp Co. have
written to me for a copy
of your contract with the
Peterson & Co. I enclose
copy, and have written
them that I have sent
it to you.

Yours very truly
F. Adams

Menlo Park, N. J., Aug 16th 1887

Edison Esq.

Dear Sir,

We received a letter
from F. Adams Newark
He said he had sent a
copy of the contract relation
East Newark - to J. A. Edison
Will you please send it to
me at your convenience
Very truly,
EDISON LAMP CO. X

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson,

Menlo Park, N. J., Aug 17 1881

Dear Mr. Edison:

Yesterday
I went to Philadelphia
and saw Mr. Constatte.
He says Wharton will
be back Aug. 19 and
if I will wait until
then he will probably
give us a very material
reduction in price. He
will give us very carefully
rolled nickles. They
seem very willing to do
all they can to help
us and say that we
shall have the lowest
price that they have ever
given on rolled nickles.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Today I have stopped
the pumps so as to
clean the mercury and
give them a thorough cleaning.
Doe thinks that he
has found lead in the
mercury so I thought
it was best to take
a decided step and
clean the whole with
acid.

I hope soon to report
on the experiments you
suggested.

Yours Truly
Francis H. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batheleien,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 19 1881

Dear Mr. Edison:

Wednesday
I had the mercury cleaned
Yesterday I started the
four workers in one
aisle with ~~and~~ one hundred
pumps. They got
off 600 A and 100 B
lamps and will do better
than this. Next week
Friday I am going
to start one hundred
more pumps and
put the two gangs into
one and work day-
times only for all
the lamps I can get.
Frank Holzer has

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batheleien,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 1881

taken a contract to
make 500 pumps at
40cts. each. I shall
do no repairing until
this contract is finished
and expect to have a
number of pumps each
day more than he has
been giving for contract
work brighter up above
men amazingly.

Holzer, Dyer and I
have each given Welch
a tracing up and have
made him work much
better. His breakage has
come down to the old
figures about 9% over

THE EDISON LAMP CO.,

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Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

more.

Frank Holger found it almost impossible to introduce the platinum foil into the fall tube. Will. Holger will try it again.

Bradley tried every way he knew of to separate fibres from the bamboo without success. He steamed them several hours, twisted them between his fingers rolled them between plates.

He will try again. This sticking of the fibres together is what makes the bamboo so

THE EDISON LAMP CO.,

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Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

good for our use. We could never cut a ribbon 6/1000 thick if the fibres were not held firmly together.

There is no moisture in the lamps that the eye can see. I shall have certain ~~fast~~ pumps run with lamps that have been taken from Sulphuric Acid bottles and report.

I have sent Humbago some to Bergmann to plate.

When you speak about our not trying experiments

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batellelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

I was rather taken aback.
That night I counted
12 experimental pumps on
the line and we have
tried over 150 forms
in the last six months.

The only way with pumps
is to keep at it and
try the same form again
and again to see if there
is any change due to
mercury or weather. It
is the hardest of all ex-
periments to try as a pump
works well at one time
then badly the good and
we cannot tell why.

We have now tested

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batellelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

about ~~over~~ 200 orders since
starting and are putting
through lamps as fast
as we can not neglecting
regular work.

Everything is pulling to-
gether now again and
I shall show full runs
in a few days.

I am cutting the fine
in piece work constantly
Bosley is bringing down
the price of fibres. You
know that 1000 lamps
a day means a good deal
and costs. 35 cents a
lamp was as low a
price as you could

THE EDISON LAMP CO., 7

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upson,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

see at the start and
we are ~~doing that~~
making them at a little
less than that.

Yours Truly
Francis B. Upson

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batteletor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 20, 1887

Dear Mr. Edison:

We tried the japanned clamps yesterday. The blue lasted very long on them so that the workers complained a good deal of the delay. The blue seemed to make just at the edge of the carbon and in one instance it broke the carbon itself which happens very seldom with copper clamps.

The drying by sulphuric acid does not show any advantage as far. Those

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batteletor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____, 188

that have run lamps with dried bulbs say they are no better, they can see no difference.

I find I cannot get 1000 of lamps off 200 pumps in one run of 11 or 12 hours sending off lamps that have been worked high, even if I let tubes I know are not just right pass.

Now about reducing expenses. Considering that we can make lamps faster than the market calls for then would

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

it not be well to
cut down to one gang
and run about 600
A lamps a day in-
creasing as we can
take care of them?

I know we cannot
make the lamps as
cheaply as we can in
larger quantities per
lamps but the running
expenses will be less.

The great trouble I
think is that we shall
have to discharge
a number of good
and well trained
men who can carry

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

away prints.

As regards the pumps
I am sure that they
the pumps can tell what
we have called good
lamps and how they
have been made. Yet
I know they are somewhat
mixed and that I can
mix ten more by
running through experiments.

I shall try and
see you Monday.

Yours Truly
Francis R. Myster.

THE EDISON LAMP CO.;

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 26 1887

Dear Mr. Edison:

We have tried the pulsating device and found trouble in working it. I have changed the device and am now rigging up to move a bottle up and down so as to throw the column up and down



This makes the column sure and avoids the danger met with in

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

the other device of throwing the mercury up into the lamp and phosphorescing.

I shall attach the bottles to a board and move them all at once.

Logan is making the iron trough for the mercury, at least he has written to order the iron.

The analysis of Dr. Hind shows that the black powder is sulfide of mercury with traces of Copper, Iron and lead.

THE EDISON LAMP CO., ³

Thos. A. Edison,
Chas. Batelleton,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

That being the case I have thought best to let the experiments with other materials than phosphorus wait. Pumps are now as important that I only want to try such experiments as will increase their life. The experiments with other devices must have a long run to decide anything.

Waltch has been so pushed to get our regular run that he has not tried the experiment you spoke of. The covers

THE EDISON LAMP CO., ⁴

Thos. A. Edison,
Chas. Batelleton,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

misarranged and are only to hand today. He has been cleaning all his forms and weights to see if he can reduce his breakage.

I have procured a new blower No. 2 for him and it helps him with his beats very much.

I have written Bergmann to snake round weights with rim and send sample.

Barré has stopped cutting the copper off with acid. An order is now running through

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batelleton,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

cut and mount.

Howell tried strengthening the carbons with some degree of success. He had to bring the lamps excessively high to do it.

I shall see Jim to tell him about the lamp as I have found that he does not take to letters as kindly as to word of mouth.

I have tried collodion in the fall tube and find it works badly. It does not make a smooth surface and makes the mercury hang

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batelleton,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Holger has just returned. Tom Howell has been sick and Marshall who takes charge of the Photo. Room has had the chills all the week, so that I have been short handed.

Holger is to start two benches on pumps in place of sealing in carbons as that seems now to be the weak point.

I am running a large number of pump orders through and expect to know just

THE EDISON LAMP CO., 7

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

what I can do.

Laguer says that you want him to stop work altogether. I wish you would send him an order to fix up pump room.

I have concluded in order to save power to run the lamps in the pump room with two E. M. F. s one to bring up high the other to warm with and keep the lamps lighted when working. In fixing a large place I should want at least four

THE EDISON LAMP CO., 8

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

E. M. F. s so that any rate of incandescence could be reached with very little loss of energy on resistances. For example to bring a lamp out red ~~at~~ with 150 Volts I have to waste 130 Volts. This would make the exhaustion much cheaper.

Yours Truly
Francis R. Upton.

Manchester, Gay & Phelps,
Commissioners at Large,
No. 115 Broadway.

JAMES H. MANCHESTER,
JOSEPH C. GAY,
GEORGE H. PHELPS.

New York, Aug. 26th 1881

Samuel Insull Esq.,

Dear Sir -

If agreeable
will you kindly send me
on 30th inst. check for
J.C. Branner's salary for
July and August. You will
recollect that on June 30th last
you sent me check for \$200
for salary of May and June.
I received a letter from Mr. Bran-
ner today dated July 1st. He was
then at Curitiba, Province of
Matto Grosso, Brazil and ex-
pected to undertake soon after
the trip from there down the
Tapajós to the Amazon.

Very Truly Yours
George Phelps

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept. 1, 1881

Dear Mr. Edison:

I have tried on six pumps the oscillating device. It seems to do some good though the record is against it as the pumps broke quicker than regulars put up at the same time. Yet I am of the opinion that the pumps take the air out quicker and with tubes lasting the same have better vacuums.

I am going to gauge the vacuums and find out.

Sagan has ordered the

iron for the troughs above.²
He took an angle piece as the best he could find. The parties of whom he ordered it will do the forging.

We have tried Ca Cl₂ in a pump and in three cases running obtained resistance lamps with spotted carbons.

A pump with Li. Cl is running but works slowly. Welch is waiting for new doors to the furnace before trying the carbonizing in way you suggested. The doors have been ordered four weeks now and were furnished ten days ago.

He is trying the weight

3

with rim on it and
will report as soon as satisfied.

We are afraid that the fibres
may lift up the weight.

The weights will cost
2 cents more that every
Rugmann tells me.

Bradley is now working
on fibres. He says that
Bambos fibres generally
branch out and nearly
always vary in size.
He says he has tried scrubbing
down and could not get
as even a strip as he can
by planing. The fibres are
apt to tear up.

I told him to try again.

Howell is a good worker
I find and is now
taking a large number
of lamps for 48 candle
curves. I will either write

or bring into New York 4
to show you the last
sets.

I am now trying in
every part to bring down
the breakage. The records
from the pump room show
that I have reduced it
to less than $\frac{1}{2}$ what it
was three months ago. I
keep a full account of
each man's work there.

I am hunting up where
the lamps lose their vacuum
for I find a loss due to
this cause of about five per
cent on old lamps.

Yours Truly
Francis R. Apton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Brush,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept 17 1881

Dear Mr. Edison:

I enclose
a letter to Mr. Goddard
regarding his request
that we select the lamps
for isolated plants.

I know a number of
the lamps we make are
not wholly shapely
but as I am trying
every way to improve
them I think all should
count as lamps.

I do not think
50 cts. is too large
a price to charge.
For we shall not make
money at that.

I wish you would
give Mr. Goddard the
letter if you approve
of it.

He said that the
lamps were crooked
in the sockets, this
I cannot believe to
be the case, I think
the trouble must have
been in the wooden
sockets.

We are trying small
and thin tubes on
the lamps and we
as far think that they
are going to work well.
They will not be as
apt to crack from the
cold we hope.

Welsch has taken some
high carbons and

213

put them in mickle
I covers with charcoal
powdered and then
covered this with plum-
bago and recastorized
with excellent results.

The putting a second
cover over the mickle
seems to be a good thing.
We will try this thus
this way next week
for we can save the
forms and make the
shrinkage smaller
for the high heats make
the weights stick.

Yours Truly
Francis R. Kipton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Babcock,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept 17, 1881

C. Goddard Peck,
Edison Elec. Light Co.
65 Fifth Ave., New York.

Dear Sir:

We are extremely sorry that fault should have been found with the lamps shipped to Newburg.

We test every socket before sending them away to see if they are loose and throw out those that are loose. We are aware that by retying them some can be found though we take every precaution that has

been suggested. We think that the men who put the lamps in at Newburg must have taken hold of the glass and the plaster and tried them ~~for~~ with a firm grip.

During the past week we have made an improvement by twisting the glass where it goes into the plaster so that it can make a good contact and be irregular in the ~~to~~ body of the plaster.

We think that these will give satisfaction.

Any lamps that are even found crooked in the sockets we will be extremely happy to have them returned

3

as we do not intend
to have any and go
out of the place.

Crooked or crinkled
carbons are good as
far as the lasting
qualities and economy
are concerned.

At 35 cts. for lamps
we do not see how
we can select them
as you suggest under
our contract. In throw-
ing aside the crooked
or irregular carbons
we should be compelled
to charge more for
those that are perfect.

Considering the expense
it would be to us;
50 cts. would be a
much fairer price

4

and for that price
we will give you
selected lamps with
straight carbons, well
plated in globes and
firm sockets tried with
a firm trust.

If you agree to this,
any order that comes
to us marked "selected"
we will pick out as
mentioned.

In time we hope to
have all our lamps with
perfect looking carbons
at 35 cts. but we can-
not now do that without
losing money taking
in account only labor
and materials used.

Yours Truly
Edison Lamp Co
A. K. Upton.

Res de Janeiro, Brazil,
Sept. 19. 1881

Edison Lamp Co.,

Mulock Park, N.J.

Gentlemen:-

Yours of Aug. 11
received and I leave here tomorrow for Bahia to
follow your instructions. I will write you fully
from Bahia or Pernambuco in a few days. The
purpose is only to acknowledge your letter and
advise you that I have drawn on you for
\$1000 one hundred dollars on my own account. Draft
will be presented by Dr. J. C. Rodriguez. It is dated Sept
19th 1881. Should there be any question about
paying it, please let my attorney Mr. George H.
Phelps, 145 Broadway, N.Y. know of it, and refer the
matter to him.

I will write fully at once, as not as so now
for I have hardly time to get ready for the steam-
er tomorrow morning.

Yours very truly,

John C. Brammer

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on condition, holding its liability, which have been accepted by the sender of the following messages.

Senders are requested to specify by appending a message back to the sending station the connection, and the Company will not hold itself liable for errors except transmission or delivery of telegraphic messages.

The message is an UNREPEATED MESSAGE and is delivered by request of the sender under the conditions stated above.

A. R. BREWER, Secy. *528* MORVIN GARDNER

Dated *Newark N.J.* *29* 1881.

Received at **791 BROADWAY**

In business
no 65-5 ave

READ THE NOTICE AT THE TOP.

*Painters at work on
building at East Newark
have just finished
Edison lamp company
Bradley*

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Know all Men by these Presents, That
 I Edward H. Johnson of the
 City, County, and State of New York

have made, constituted and appointed, and by these presents do make, constitute
 and appoint Thomas A. Edison of New York
~~City of Middlesex County and State of New Jersey~~
 my true and lawful attorney for me and in my name, place and stead
 to make ~~and execute~~ into and execute
 in my name any and all agreements
 and contracts between the Edison Lamp
 Company, a corporation hereafter to be
 organized under the laws of the
 State of New Jersey and the said
 Thomas A. Edison and Francis R. Upson
 Charles Batistola and myself also any
 and all agreements and contracts between
 the said Edison Lamp Company and
 myself and any other person or persons
 giving and granting unto my said attorney full power and authority to do
 and perform all and every act and thing whatsoever requisite and necessary
 to be done in and about the premises, as fully to all intents and purposes, as
 I might or could do if personally present, with full power of substitution
 and revocation, hereby ratifying and confirming all that my said attorney
 or his substitute shall lawfully do or cause to be done by virtue hereof.

In Witness whereof, I have hereunto set my hand and seal
 this twenty first day of September in the year one thousand eight
 hundred and eighty one

Signed and delivered in the presence of

Edward H. Johnson
Samuel Russell

State of New York
 COUNTY OF

ss. Be it known, That on the _____ day
 in the year one thousand eight hundred
 before me

and acknowledged the above Letter of Attorney to be

act and deed.

In Testimony whereof, I have hereunto subscribed my name the
 day and year last above written.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept. 23 1881

Dear Mr. Edison:

The factory will be closed on Monday in accordance with provisions.

The thin fall tubes are still showing well though they have not yet had a full trial. A fall tube lasts on an average about two weeks and it takes about ten days for good tubes to show badly.

I expect by next Tuesday that there will be a good test; for

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

the pumps being idle seem to be almost worse than when they are used constantly.

Every part is going on smoothly this week and each working day has brought more than 1100 lamps so that I hope to get 5000 by Saturday night from the pumps. This less 5% for lost vacuums and breakage up to the packing room will be our weeks work. With our present

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

chairs from 1500 to
1700 pieces a day will
give about 1000 lamps
to the packing room.

The largest percent 20,
the loss is in carbonizing
so that it does not count
so much, and 8 to 10 %
broken or thrown out when
the sockets are put in sockets.

The pump room has
was the smallest last
week that it has ever
been, 10 to 12, and this
week I hope to see
it even better.

The lamps that were

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

sent to you for testing
fourteen to fifteen St.
and for H.P. I
will have Howell send
you a memo. of ten
lamps of each of the
Vols so that you can
form some opinion of
how much power the whole
may take and the condition.

Today we shipped 1400 lamps
the nearest to a good business
that we have ever come to.

Yours Truly
Francis R. Upton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept 25 1881

Dear Mr. Edison:

Dyer is going into New York today. The money question is growing in importance. For example I looked round New York and found the cheapest place for straw paper.

We sent them three orders which they filled immediately and then deprived us for money as the sales were for cash. We have not yet paid them as we took our bills in order. Two weeks

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

ago we sent another order which they have not filled so that yesterday we ran out of paper.

The Lehigh Co. have been sending us very bad coal we have written them without effect for we are not prompt in payment.

We are making between 900 and 1000 lamps every working day and the running expenses are between \$1700 and \$1800 a week, actual money expended.

To keep running this

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie B. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

outlay must be met.
and to run economically
it must be met ~~promptly~~.

We cannot lay off
without very serious loss
as we have been cutting
down wages so that when
running constantly we
lose more and then
hands. Shutting down for
two weeks would drive
away a number more.

Yours Truly
Francis R. Upton

Menlo Park, N. J., Sept. 27, 1888

J. A. Edison Esq.
Dear Sir,

Mr. F. R. Upton sent check
to Frederick Adams
to day on account of
Harrison property -

Very truly,

EDISON LAMP CO.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept. 28, 1888

Lamb. Innull Luty.
65 Fifth Ave
Ney.

Dear Sir:

I do not
know anything more
about the platinum at
Hoadley Bros than the letter
you sent me says.
Have you any directions
or advice to give in
the matter? Not hearing
from you I shall call
at their place of
business.

Yours Truly,
Francis R. Upton

BLANCHARD, GAY & PHELPS,
COUNSELLORS AT LAW,
145 BROADWAY,

James A. Blanchard,
Joseph G. Gay,
George H. Phelps.

New York, Oct. 3^d 1881

Thomas A Edison Esq.,

Dear Sir -

Will you
have the kindness to inform
me whether in your advice to
J. C. Brammer, he is to return
to the U.S. by or before Nov. 1st
or is to remain longer in S. A.

I desire to communicate with
him and this knowledge will
determine whether I must cable
him at once at Paris.

If convenient kindly send me
Mr. Brammer's salary for September.

Respectfully Yours
George H. Phelps

[TO SAMUEL INSULL]

Menlo Park Oct. 4, 1891.

I am compelled on account
of the dangerous sickness of
my father to go East tonight.
You will write Dyer regard-
ing business and make money
matters to his order

L. R. Upton

E Camps File

Yungfortk. Pott. 9. 1887
Adamoz (Platinum)
J. A. Corison Esq.

Yungfortk.
Dear Sir:

I was very sorry to
learn from your favor of
Aug 4th a.c. that you had
made new arrangements
with a London firm for
the supply of Platinum,
and would respectfully
ask you to inform me
when you are again in the
market, as I am now
able to offer you our
Platinum considerably lower
than hitherto. I hope
the kinders have of
late been manufacturing
an extra hard Platinum
etc. Iridium, which might
answer your purposes &c.

which I can sell you
very cheap.

Yours very truly

W. F. Adams.

P.O. Box 3575

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Oct. 12, 1887.

Dear Mr. Edison: I understand that Mr. Gaddard or someone has misinstructed me to say that the lamps sent to Newburg were poor. I did say that the sockets were poor in a number and showed him and May. Even the trouble and the remedy, that we have applied.

The lamps are from our regular runs and as good as we make.

I think that they must run them at above than eight candles, for it

the only place where
trouble is reported.

Some moulds are
being made from porous
earthen ware for us
to use instead of brass.
Plaster becomes much
harder when poured in
porous material.

The materials for the
compound you mentioned
to me have been ordered
and it will soon be
tried.

John Hamell has spoken
to you concerning the offer
Winton made him. The
Lamp Co. could keep
him busy and I think
\$15.00 would make
him stay. We must
not let him go at

present.

Welch is trying a num-
ber of experiments and doing
some good work.

Yours Truly,
Francis R. Manton.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Oct 14 1887

Dear Mr. Edwin Bergmann & Co.,
write us that they can
have lamps direct from
factory at 35 cts. This
is against provisions of
contract. Will you
inform us what to
do and procure orders
from "Edison Light Co." for
lamps if you think best.

Yours Truly
Edison Lamp Co.
T. A.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on condition, limiting its liability, which is subject to the order of the following message.
Errors can be avoided when only by applying a message to the sending station for completion, and the Company will not take itself liable for errors or delays in transmission or delivery of the message and the message is an **UNREPEATED MESSAGE** and is delivered by means of the sender under the conditions stated above.

A. B. BREWER, Sec'y.

NORVIN GREEN, Pres't

Date

Received at 791 BROADWAY.

To Mr. Edison

65 save

READ THE NOTICE AT THE TOP.

Run the two thousand
Unsocketed lamps be
of other than London
volets if packed in
separate packages and
distinctly marked
Edison Lamp

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Fennell R. Upton,
Edward H. Johnson.

[Handwritten signature]

Menlo Park, N. J., Oct. 18 1887

S. Inaull. Esq.
65 Fifth Ave. N.Y.
Dear Sir:

You advise
of our shipping lamps to
Johnson direct. Please send
full shipping instructions.
Have you done anything re-
garding patent labels for
lamps, as mentioned by
Mr. Edison?

Yours Truly
Edison Lamp Co.
[Handwritten signature]

[Handwritten notes and scribbles]

Am. Light
Oct 18
To Mr. Phelps, regarding
Mr. Brannin's salary

Oct. 18th.

Geo. H. Phelps, Esq.

149 B'way, N.Y. City.

Dear Sir:--

I am sorry that Mr. Brannin's salary should not have been sent to you. I will see that the Sec of the Electric Light Company attends to the matter right away.

Yours truly,

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic R. Upton,
Edward H. Johnson.

Am
Menlo Park, N. J., Oct. 17, 1881

Thos. A. Edison Esq
65 Fifth ave. N.Y.

Dear Sir:

Enclosed
please find letter from
Brunner. The letter
of Aug. 11 referred to directs
him to make full
arrangements for shipping
Narawa and to send
large samples.

Will you make arrange-
ments to have his draft
honored by Edison Light Co.

Yours Truly

Edison Lamp Co.

W.A.

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY

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Service can be expected against only by repeating message back to the sending station for confirmation.
This Company will not be held liable for any delay in transmission or delivery of messages.
The message is an UNREPEATED MESSAGE and is not to be repeated by request of the sender under the conditions set forth above.
A. H. BROOKER, Sec'y. MORVIN GREEN, President.

Dated

Received at

791 BROADWAY

To

Edison

READ THE NOTICE AT THE TOP.

60 Dave

will be an office
at Eight pm tonight

For Upton

Place

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY near Tenth Street,

WHEN ANY REPLY SHOULD BE SENT.

Direct Wires.

Office of ^{Lancaster Co.} Arthur Downie,
179 Market Street, ^{Sept 25}

Declarer to
New Jersey Real Estate Bonds and Mortgages,
Legal Estate at Public or Private Sale,
Commissioner of Deeds
and
Notary Public.
Newark, N. J., Oct 19th 1881

My dear Sir
will you let one
of your East Newark Building
to an English Thread Co who
we want to locate in this County
they will not want it any length
of time as we shall see them
land to build this will be only
a temporary fix. let me know
immediately and then

James Bennett

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on condition, limiting its liability, which have been inserted in by the sender of the following message.
It is to be understood that the Company is not responsible for any delay in transmission or delivery of messages, or for any loss or damage to property or other interest in consequence of the use of the Company's lines, or for any loss or damage to property or other interest in consequence of the use of the Company's lines, or for any loss or damage to property or other interest in consequence of the use of the Company's lines.

By *W. H. W. W.* Secretary.

W. H. W. W. President.

Dated

Received at **791 BROADWAY, N. Y. C.**

To *J. A. Edison*

65 St Ave

READ THE NOTICE AT THE TOP.

*Shall we send lamps
to Bergman without order
from E. E. Light Co*

Edison Lamp Co

W. H. W. W.

Two

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Oct. 23th,

Francis R. Upton,
Edison Lamp Co.,
Menlo Park, N. J.

Dear Sir:--

I am now making inquiries with a view to
your shipping all lamps to foreign acct. direct. I
will let you know the result in a day or so.

We are now attending to the matter of patent
labels for lamps. Your letter is the first I had
heard of it.

Yours truly,

Oct. 25th,

John M. Burnett, Esq.
79 Market St. Newark, N. J.

My dear Sir:--

Referring to your favor of the 10th, Mr.
Edison requests me to say that he does not care to let
any part of the East Newark building even for a short
time, as he wants it all for himself.

Yours truly,

Secretary.

Oct. 29th,

Edison Lamp Co.
R. N. [unclear], 7514.

Dear Sir:--

Make a list of all Patents which
can be printed and pasted on the Lamp as at present u
used. The object is to show the patents under which
we work so far as the lamp is concerned.

Yours truly,

Oct. 29th,

Edison Lamp Co.

Menlo Park, N. J.

Edison Lamp Co.
Dear Sirs:--

Bergman Co. have no right to order lamps

from you without an order from the Electric Light Co.

as provided by your contract with the Light Co.

However, you might send the lights they require and th

then get the order from the Light Co. afterwards.

will write to Bergman on the subject.

Yours truly,

Oct. 25th,

Col. Goddard:--

Referring to the enclosed letters I, *Edison*
strongly advise that three or four half lamps $6\frac{1}{2}$ per
electrical horse power of the same volts be sent to
Edison parties as these applicants, as it is a very cheap
~~advertising~~ advertising for us. Most of those who write
for lamps are professors who lecture on scientific
subjects and draw an audience of the best people, so
that it is just possible that by accommodating them we
may do ourselves a good deal of good.

Yours truly,

Oct. 25th,

Edison Lamp Co.

Menlo Park, N.J.

Dear Sirs:--

Referring to yours of the 18th, as the
advice of Mr. Brenner is drawn against you would it not
be as well for you to meet it and then get the money
back from the Electric Light Co.? I will speak to
Col. Goddard about the matter.

Yours truly,

THOMAS A. EDISON

Answer

No. 65 FIFTH AVENUE,
NEW YORK, Oct. 25th, 188

Col. Goddard,

Dear Sir:--

Mr. J. C. Branner, who is in South America
hunting for bamboo, has drawn on the Lamp Co. for \$100.
This should be paid by the Electric Light Co. Will
you meet the draft or shall the Lamp Co. pay it and then
apply to you for reimbursements.

Yours truly,

Samuel Insull

26th We will pay it direct if correct
Why does he draw on Lamp Co instead
of as usual on Diesel M & Co's Credit?
Is this for acct of expenses or salary?
Chas. Goddard

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY

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Messages sent by telegraph are subject to the following conditions: In the sending station for comparison, and the Company will not be held liable for any delay in transmission or delivery of telegraphed messages.

This message is an URGENT message and is delivered by request of the sender under the conditions stated above.

A. H. HEWELL, Secy.

NORVIN GREEN, President.

Dated March 1 1881.

Received at 791 BROADWAY Feb 1 26

To Samuel In full

651.50ave

We will ship lamps
to Johnson as once
Edison Lamp Co

Mo

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., ~~Sept.~~ Oct. 27, 1887

Dear Mr. Edison:

Could not
some arrangement be made
to pay part of our experimental
expenses?

The European Light Co. pro-
pose starting a factory and
are interested in having the
life of the lamp extended
and the processes cheapened.

It would be very valuable
to have them to have full
transcripts of all our curve
sheets old and new. They
would do well to take them
and ask for new ones paying
us so much money for
each lamp used.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 1887

England could also give
something and the American
Co. would be interested in the
same way.

If fifty cents a lamp,
of which a complete record
were taken, could be collected
from each of these companies
it would be a great help
to the Lamp Co. and benefit
the parties mentioned still
more for it would point
out to them and as how
better lamps could be made.

There is no justice in the present
arrangement in which the Lamp
Co. gives everything and takes nothing.
Yours Truly Francis H. Upton.

Frederic Adams
FREDERIC ADAMS,
COUNSELLOR AT LAW,

755 Broad Street,

Newark, N. J. Oct. 29, 1881

J. A. Edison, Esq.,
No. 65 Fifth Ave,
New York City,

Dear Sir,

On referring to ~~my~~ letter
of Aug. 30. I find that it re-
fers to the tax for 1881 on
the Harrison property, as a
lien payable by the Peters.
Mfg Co. I find, on examin-
ing the Charter of the Town
of Harrison that taxes become
lien on July 30, which is later
than is the case in Newark, or
under the General Laws. As your
agreement was made, and the
papers are all dated May 9th, the
tax falls ~~on~~ ^{to} you. You will re-
member that Nov. 9th is the
day for closing the matter. I
felicitate you on your triumphs
at Paris.

Yours truly,
Frederic Adams

Pará, Brazil, Oct. 29, 1881

The Edison Lamp Co.,
Menlo Park, N.J.

Luthomus—

I am sorry to say that up to the present date I have received no answer to my letter asking you whether I should return home at once, or remain here to do further exploring, or go to the West Indies.

The mails to this place from New York are irregular and uncertain since the removal of the American line of steamers. But I have thought it my duty to await your answer, and in view of the fact that I might as well be at work while I am waiting, I have taken upon myself the responsibility to draw upon you for \$200 in order to be able to see the time. Since I arrived here on the 3rd inst. I have been confined to my room with the jungle fever until within the last few days. I am now able to travel and will leave here for the fiber producing districts of the Rio Negro on the 2nd of Nov. I will be back here in about three weeks or a month, and will follow out the orders I then hope to find here from you.

I have some good samples from Bahia, and some ~~poor~~ bamboo from the Rio Plate, or Paraguary rather, besides a number of less promising ~~from different parts of the country~~ fibers. I cannot afford to send them on at present, on account of the state of my finances. If I am ordered home I will bring them with me, and if I am to remain here still longer, I will have money enough to be able to ship them.

Your idea of making arrangements for the shipping of a fiber that is not known to have any commercial value at present, is impracticable for this country. If a fiber is found which will make it worth your while to do so, you will have to send some one out to teach the people what is wanted and how to prepare it. For known fibers or plants, it is easy enough to make arrangements, and I have already made such arrangements when fibers are articles of export. I will not enter into a detailed explanation of this matter at present though, for it would be more than you would care to read. I have done, and shall continue to do all in my power to serve your interests, making all arrangements and collecting all information possible.

Draft. I drew on you before I left Rio for \$100, and again yesterday I drew on you for \$200. This last draft was made through Saml. G. Pond & Co. of this city and of 174 Wall St. N.Y. Draft payable at sight. I have stated on them that they are on my personal account, but have done so only because I have no authority from you to draw on the account of the company. In that matter I have none to draw on my own account, but I hope you will see that it is better that I should have done so than that I should have been idle to await letters which will arrive, no one knows when. I therefore beg you to honor these drafts, and if I have made a mistake in drawing them, of course I hold myself personally responsible to you.

Yours very respectfully,

Address:

Of New London & Brazilian Bank, Parâ

Cable address:

"Branner", Parâ

John C. Branner,

Oct. 30th,

Edison Lamp Co.

Edison Park, N.J.

Sirs:--

Referring to my letter of the 24th Mr.
Doddard informs me that the Edison Electric Light
Company will meet the draft for \$100. of Mr. J.C.

Tranner. If the draft should be presented to you
please pay and apply to the Light Co. to reimburse
you.

Yours truly,

Sample 60
FREDERIC ADAMS,
COUNSELLOR AT LAW,
755 Broad Street,

Newark, N. J. Oct. 31, 1881.

J. A. Edison, Esq.,
No. 65 Wall St.,
New York City.

Dear Sir,

The Peter Mfg. Co. have partially made their arrangements to place the \$30,000 mortgage, with a financial institution, as a permanent investment, and I desire to borrow the searches for them to examine, and also to consult with you about a change in the form of the mortgage. I will call on Thursday morning, Nov. 3^d. unless I hear from you that you will be unable to come.

Very truly yours,
F. Adams

E. H. PETERS, President.

N. H. PETERS, Secretary.

D. D. SMITH, Jr., Treasurer.

THE PETERS' MANUFACTURING COMPANY.

OFFICE:

CORNER CHERRY AND CANAL STREETS.

Newark, N. J. Nov 5th 1881

Mr. Frederic Adarns,
City

Dear Sir,

In carrying out the agreement of Sale of Property to Messrs. Edison & Co., the following items are due on 9th inst:-
First (1st) Mortgage of \$2000.00 on property.
Second (2^d) Mortgage to secure payments of Notes, amounting to Seventeen Thousand Dollars.
Cash, Five Thousand Dollars,
On account of notes, Seventeen Thousand Dollars,
and sum of Twelve Hundred & Ten Dollars interest on Forty seven Thousand Dollars from May 9th to November 9th.

Yours truly
E. H. Peters

THE EDISON LAMP CO.,

Thos. A. Edison,
Chgo., Ill.
Franklin D. Upton,
Edgewood, N. Y.

Menlo Park, N. J., Nov. 8 1881

Dear Mr. Edison:

Yesterday and today the factory is not running.

I have run a new line and finished the switches so as to run the lamps on the pumps with two

E. M. L. I have also put a new pulley on the counter shaft to mercury pump so as to run the pump between 80 and 90 r. p. m. We change Thursday from mercury seals to the new stoppers.

I have contracted with Doe for 100,000 of the new style at $\frac{1}{2}$ ct. each,

I thought it was well to encourage him as he has done good work and obtained excellent results. He has a very good experimental turn and will be useful to us.

Howell is now in the pump room and intends to take twenty-five pumps during the daytime and to work off experimental lamps and keep the records of them on the pumps.

Last week some curves were made that were very poor. I have been over all our curve sheets and reexamined all the processes of manufacture to see if I could find the trouble.

I admit that we have not taken curves as often as we should and as often as we shall in future. Yet in looking back I know that we have tried. In the photo room we have had more than a share of trouble.

I have had four men in charge, Dr. Nichols, Hummer, *Marshall who died, and Howell. Now I have another Marshall* who is just broken in.

Every new man has to go through with a certain amount of experience with the instruments and is compelled to give their time almost entirely to keeping them in order so as to make the Volta circuitry on the lamps.

Another reason is that we have worked so many pumps over that we felt a little sure of being all right. I feel convinced now that the only way to learn about lamps is to make life tests, and this I shall do.

The first part of the curve shows what the lamp is doing the last part is generally abnormal. I have given orders to have two lamps taken from each day run and kept burning for 24 hours at 32 candles and then the condition of the lamps noted.

We have noticed that

the lamps that are here go the quickest, and that a lamp is apt to become blue immediately before breaking.

We have had a very good curve from the 9 Nanna stick and I think something may be made of the stick. By some overnight Welsh put in three runs of reduced carbons and it is from these that the poor curves have been made. The carbons were high from lack of full heat then they were put in plumbago and reheated. The body was excellent and the resistance very low I thought they were

all right for they had every appearance of good carbons and I told him so. He can get these carbons with a very small shrinkage and clean forms. This was the temptation, for he wanted a good record.

We are fixing his furnace putting in a new arch on top as the old one was very bad.

Seymann is now making the new machine having the tools and the pattern all right. He promises the whole by the middle of next week. I think they will be strong enough for one cannot break this by a simple grip without tools.

8
We owe the Goring \$3900
for glass, they ask for \$1000
on account of July bills.

I think it would be well
to pay the full amount as
they are doing very well by
us and this would prove
us a new credit with them.

Holger is taking steps to
have the lamps sealed much
stronger than before and
to run through some
orders worked different
ways.

We are using
platinum wire harder
down than at one time
as it makes much finer
inside parts and is less
apt to break. I shall
try some other numbers
on platinum though I
think there is little

8
chance here as we have
gone back to such wire
as we used originally,
without finding trouble.

I am doing all I can
to improve the lamp and
bring it up to the old
standard and make 600
hours within the truth.

Yours Truly
Francis R. Updegraff.

have great pleasure in tendering you our
best congratulations for your splendid
success as to Davis' Electrical Substation
and trust that the practical results being
in every way more satisfactory to you.

We are, Dear Sir,

Very faithfully Yours,

Stamuel C. Williams

We enclose under separate cover for you
the returned - we have a book promising
prepared for you with special care - and
hope soon to hear of your further requirements.

(Order next forwarded to
Inch's Park)

T. A. Edison Esq.

65 Fifth Avenue

New York

Adm. Sec.
FREDERIC ADAMS,
COUNSELLOR AT LAW,
755 Broad Street,

Nov 11 1881
Newark, N. J. Nov. 11. 1881.

Thomas A. Edison, Esq.
No. 65 Fifth Avenue
New York City,

Dear Sir,

I acknowledge the
receipt of your favor of
the 10th, inst., enclosed
sealed bill to The Morris
County Savings Bank.

Return your bond,
cancelled.

Yours very truly
F. Adams.

File
THE EDISON LAMP CO.,
J. W. Edison,
John D. Schellen,
Frederic R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov. 21, 1881

Dear Mr. Edison:

I went
to E. Newark this morning
to examine the wall of
the central building.
Mr. Allen, a builder
of reputation, pronounced
that which remains un-
safe. I directed him
to take down the top
story and roof the
remainder with hemlock
boards so as to protect
it. All but the tower
on the East side blew
down the other day.

Yours Truly
Frederic R. Upton

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic S. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov. 22, 1881

Dear Mr. Edison: Regarding the last letter from Mannheim, Hermann & Co.

I have wrote under date of Aug. 8. that the bamboo we were receiving was cut out of season and that they suggest your stopping contracts for a time for which purpose they add a code word Panel meaning cannot all contracts supplies coming forward are of inferior quality."

I wrote them ordering 2,000,000 fibres to be

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic S. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

cut next spring and do not now think that they could take the telegram to mean stop that order, as it was especially meant to stop cutting bamboo out of season.

Welsh man through one man with very clean forms. He reports the carbons as no better in one lot of fifty he only found six good ones. On an average less than half would pass. Your way of fixing the wire might be the form appears to be

a perfect success and will
 be a great help in cleaning
 the forms as it does away
 with the small pins on
 the bottom. I have ordered
 Baumgarten to make the
 change in all forms coming
 to us.

We place the drying
 material in ice for drying
 the bulbs and find that
 it helps.

I expect a very fine
 crop from the Campes that
 are run through after
 inspection of the carbons, but
 it will make it hard work
 getting enough carbons.

Yours Truly
 Francis R. Mott.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

Jan 22nd
1887

Paul Dussell Esq.,
Dear Sir,

Will you
please get his orders
from C. Goddard for
Lamps you ordered
on 12th inst.

50 each A & B Lamps
for Prof. W. B. Barker -
12 B. Lamps for your
self and 6 B. Lamps
for R. W. Merrill & Co.

Also see C. Goddard at
my about charging
Lamps to so many
different - people.
Will oblige.

Sincerely
Edison Lamp Co. S.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

Jan 22nd
1887

Paul Dussell Esq.,
#65 Fifth Av.
New York

Dear Sir,

We send you a
box marked T. A. Edison
containing special Lamps
as follows -

| | |
|------------|------------|
| 5 B. Lamps | 4 mm bulbs |
| 6 A. | " " |
| 9 B. | " Blue " |
| 3 A. | " " " |
| 2 A. | " Red. " |
| 2 A. | " Amber " |
| 2 A. | " Opal " |

Please send us an
order for same

Sincerely
Edison Lamp Co. S.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY

This Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which have been accepted in by the holder of the following message.

It is not to be construed as a receipt for, or a reference back to the sending station for confirmation, and the liability will not be assumed for errors or omissions in transmission or delivery of the message.

This message is TRANSMITTED HEREON and delivered by request of the sender under the conditions stated above.

A. B. [unclear], Sec'y. *704* NORVIN GREEN, President.

Date *then Oct 23 1881*

Received *791 BROADWAY.* *Nov 22*

To *Edison*

65 save

Lamps send by Express

yesterday letter by mail

Explaining matters.

Edison Lamp Co

10 ph me

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct. Wires.

READ THE NOTICE AT THE TOP.

THE EDISON LAMP CO.,

Thomas A. Edison,
John B. Stetson,
Frederick R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov 22nd 1887

Paul Insull Esq.
60 Fifth Ave
New York

Dear Sir,

Your Telegram
received this morning.
Our shipping clerk
had special instructions
to send your lamps
on Saturday eve.

But for some unaccount-
able reason they did
not go till last evening.
I have probably
received them in this.

1 BX #198-12 @ lamps & 6 bottles
We are very sorry for the
delay. Yours truly
Edison Lamp Co. over

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Bushaker,
Frederic H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov. 25 1881

Dear Mrs. Edison:

I want you to come here to make a series of experiments on spirals. I have been thinking about the matter and am convinced that 13 or 14 per H.P. of 16 candles is possible.

I wish you would make out a list of material you will need for experimenting and I will try to have it ready for you. I do not think that 10 per H.P. is quite work over enough.

You are for isolated 75 Ohms is enough and a spiral at that will give an

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Bushaker,
Frederic H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

immense margin for economy.

I think something should be done to give things a boost and start the other places in good shape.

Body is what is needed in the carbon so as to preclude any chances of unevenness. Plenty of body will give a chance to clean the lamps without detriment.

Yours Truly
Francis R. Upton.

THE EDISON LAMP CO.,

John A. Edison,
Chas. Batistovich,
Frankie R. Upton,
Edward W. Johnson

Menlo Park, N. J.,

Nov 26th 1887

Paul Dussel Esq.
#65 5th Ave.
New York
Dear Sir
Your letter
of Nov 23rd relative
to East Newark property
and letters from Dr.
Adams is at hand
also papers of above
mentioned property.

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

John A. Edison,
Chas. Batistovich,
Frankie R. Upton,
Edward W. Johnson.

Menlo Park, N. J.,

Nov 28th 1887

V. Ardison Esq.
#65 Fifth Ave.
New York

Dear Sir,
Enclosed find
check to pay draft
drawn on us by Mr
J. C. Branner.
Please endorse check
and return at once.

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Fremie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov. 28 1881

Dear Mr. Edison:

I enclose
letter from Brammer showing
that he has not received
our last letter.

In Oct. I received a
letter from him dated
July 17 saying that he
should start direct for
the States ~~there~~ by Oct. 1,
some days before the receipt
of his letter. I wrote to
him at St. Thomas that
there was no use of his
going to Cuba and also
to Para saying that we
wanted full samples of
all the fibres he could

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Fremie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

get. The latter letter was
short as I did not ex-
pect it to reach him.

I think it would be
well to recall him by
telegraph.

Yours Truly,
Francis R. Upton.

Cable Brammer Para
Return.

Edison

Write Upton to ~~send~~
have done to reach him
to send cost of cable - send
back Brammer letter

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which are hereby accepted by the sender of the message.
Errors are in service rendered only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of messages.
This message is an UNREPEATED MESSAGE and is delivered by request of the sender under the following conditions:
A. R. BREWER, Secy.

Dated Nov 3 1881.

Received at 791 BROADWAY, New York

To Thos A. Edison
63-5 Ave

Joined lamps three
hundred and twenty
minutes all going
no sign of blue

J. R. Upton

READ THE NOTICE AT THE TOP.

138d

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which are hereby accepted by the sender of the message.
Errors are in service rendered only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of messages.
This message is an UNREPEATED MESSAGE and is delivered by request of the sender under the following conditions:
A. R. BREWER, Secy.

Dated Nov 3 1881.

Received at 791 BROADWAY, New York

To J. R. Upton
65-5 Ave NY

Those lamps had new
sockets
Edison Lamps Co
3 pdr

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

Paid, Dec. 6, 1881

The Edison Lamp Co.,
Mills Park, N. J.).

Gentlemen:-

I have this day drawn on you through
Samuel G. Bond & Co., for the sum of one hundred
dollars (100.), the draft payable at ninety days
sight. Will you kindly honor it and charge the
same to account.

Yours very truly,

John L. Brammer.

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY.

This Company, its Agents and Messengers are engaged only on condition that the liability, which has been assumed by the Company, shall be limited to the amount of the money received from the sender of the message, and the Company will not hold itself liable for errors in transmission or delivery of messages.

The message is an acknowledgment of the receipt of the money and is delivered by request of the sender under the conditions above stated.

A. B. BROWN, President.

ROBERT W. BROWN, President.

Date: Menlo Park N.J. 1881.

Received at 791 BROADWAY

To Sam'l. Snarell

65-5 av. N.Y.

Are you coming here

today what time

Edwin Lang. C.

Yr. friend

READ THE NOTICE AT THE TOP.

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHEN ANY REPLY SHOULD BE SENT.

Direct Wires.

E. L. -
Edison E. Lamp Co.
1881

9th Dec 1

To
Edison Lamp Co
Menlo Park
N. J.

Dear Sirs,

I beg to inform
you that I have sold to
Mazod Parke and Laughlin
the twentieth interest
in the property and
business of the Edison
Lamp Co thus leaving my
interest fractional. I have not
so recently per centum.

For the present place
address Mazod and Laughlin
at 65 Fifth Ave New York.

Yours truly
O. A. Edison

THE EDISON LAMP CO.,

John A. Edison,
Vice President,
Frank R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Dec 16 1881

Paul. Insull Esq.
#65 Fifth Ave.
New York

Dear Sir,

We last had the
pleasure on the 6th inst.,
and have since received
your favor of the 15th inst.,
Contents of which are duly
noted. As Mr. Edison has
been here most of the time
The report was handed
directly to him. Not
knowing that it was
needed by you also in
New York. We take great
pleasure in sending it
very after daily -

Yours truly Edison Lamp Co.

E. L.
THE EDISON LAMP CO., 1881

John A. Edison,
Vice President,
Frank R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Dec 20 1881

J. Ardism Esq.
#65 5th Ave.
New York

Dear Sir,

Your favor of
9th inst. is at hand.
Advising us about
your selling our
Lamp Co. to Major
Frank M. Laughlin of
#65 5th Ave. New York,

Yours truly
Edison Lamp Co.
Francis R. Upton Pres.

Lamp Factory
Dec. 22, 81
Suggestions on Lamps

OMAS A. EDISON,
5 FIFTH AVENUE,
NEW YORK.

Double globe -
Outside globe
exhausted
an extra globe put on reg. lamp
Wire running in
globe,
Sqr inch tin foil
in outside globe
glass partition,
Wet globe down so as to
get on carbon -

Dec 22, 1881
T. General

Manila Park - Feb -
Visitors
1881

Dear

Blank No. 2.

THE WESTERN UNION TELEGRAPH COMPANY.

ALL MESSAGES TAKEN BY THIS COMPANY SUBJECT TO THE FOLLOWING TERMS:

[illegible]

insured by contract is willing, stating agreed amount of risk, and payment of premiums thereon at the following rates, in addition to the usual charge for repeated messages, viz: one per cent. for a distance not exceeding 2,500 miles, and two per cent. for any greater distance, and for any message, direct or indirect, in connection with the foregoing terms:

No responsibility regarding matters attaches to this Company until the same are presented and accepted at one of the transmitting offices; and if a transmittal is sent to such office by one of the Company's managers, he acts for that purpose as the agent of the sender.

The Company will not be liable for damage in any case where the claim is not presented in writing within sixty days after the date of the loss.

NORVIN GREEN, President.

A. R. BREWER, Secretary.

NORVIN GREEN, President

791 BROADWAY

Dec 2nd 1881

Send the following message, subject to the above terms, which are agreed to

To E. Dixon

Granner has left Para your
Cablegram ^{of 14} is undelivered.

J. B. Page
Knox

237 READ THE NOTICE AND AGREEMENT AT THE TOP.

С о р у

Arthur W. Hinton, Esq.,
Hartford, Ct.

2000-2001

The particular specimen of the type of which you require some from Australia, Vietnam. I bought them in that way, to be they are used for building purposes and for houses. This is, I think, the first of the Indian name of "Changai." I was told that it was found in the vicinity of the Yangtze River, China, Australia, in abundance. I have seen it in the same place but known as "Changai" and, I think, some of the other names. I was told, I found it growing along the Yangtze River in the same place and some of the names for the plant in the same place. It is especially common in the Yangtze River.

[illegible]

I shall be glad to give, on any further information in re-
gard to these matters in my power. Please return reply to Mr.
Wilson, and believe me

YOUNG WOMEN TODAY

(continued)

JOY D. BRYANT

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Baileys,
Frederic R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

*Memorandum of Note Books at
Lamp Factory in Experimental Test Dept.*

| | | |
|--------|--------|--------|
| No 173 | No 194 | No 243 |
| No 166 | No 163 | No 217 |
| No 195 | No 219 | No 185 |

*The above pertain only to Experimental Test-
Lamps.*

*No 178 - Record Book of Lamps burned
on outside circuits, from Dec 20 to Mch. 31*

Wm. H. Hammer

No 173 No 210 No 210
No 166 No 163 No 163
No 195 No 219 No 185

THE EDISON ELECTRIC LAMP CO.

For

Johnny Randolph

Edison Electric Lamp Co.
New York, N. Y.

Enclosed find the following bills for the Edison Electric Lamp Co. for the month of July 1914.

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| No. 183 | No. 184 | No. 185 | No. 186 | No. 187 | No. 188 |
| No. 189 | No. 190 | No. 191 | No. 192 | No. 193 | No. 194 |
| No. 195 | No. 196 | No. 197 | No. 198 | No. 199 | No. 200 |

Wm. B. Cook

Very truly yours,
Wm. B. Cook

1881. Electric Light - Edison Electric Lamp Company - Accounts (D-81-024)

This folder contains correspondence and accounts relating to the finances of the Edison Electric Lamp Company. Much of the correspondence is by Francis R. Upton, general manager and treasurer of the company, and by Philip S. Dyer, secretary.

Approximately 50 percent of the documents have been filmed. The following categories of documents have not been filmed: routine correspondence regarding outstanding accounts and checks sent to Edison for endorsement; bills and receipts; bills of lading.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batteston,
Frankie H. Upson,
Edward H. Johnson.

Menlo Park, N. J.

Jan 20th 1881

Statement of Debts to date

| | | |
|------------------------|------|----|
| Bills owing | 1390 | 32 |
| Corning Glass Works | 637 | 74 |
| Vanderbeck & Sons | 906 | 54 |
| Joseph Thordon | 25 | 45 |
| M. Plummer | 73 | 27 |
| M. Guman | 31 | 89 |
| Wm Stainsby | 383 | 88 |
| Chas. Pratt & Co. | 62 | 20 |
| Amzi Pearson | | |
| Mrs Mills & Son | 161 | 20 |
| Eist. Jap. Mfg Co. | 655 | 56 |
| Mrs. Fisher & Co | 30 | |
| Woolly Rubber Co. | 179 | 65 |
| Janner Jacobs & Co. | 88 | 65 |
| Salanca & Grosjean | 687 | 34 |
| McNab & Harlin Mfg Co. | 448 | 26 |
| P. Bergmann | 54 | 29 |
| McKesson & Robbins | 6 | 44 |
| Co. Shmo | 60 | 92 |
| G. F. Hughes | 5884 | 18 |

Settled

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Continued

| | |
|---------------------------|---------|
| Patterson Bros. | 5884.18 |
| F. W. Grosvenor | 80 23 |
| L. J. Pilotton & Co. | 27 58 |
| Leonard & McCoy | 14 38 |
| Hoyt & Co. | 13 05 |
| Ansonia B. & C. Co. | 15 06 |
| B. L. Ford | 4 20 |
| Abrahamson & Root Mfg Co. | 36 34 |
| Cornell & Co. | 47 43 |
| E. B. Benjamin | 4 68 |
| Leontine & Trull | 24 76 |
| Mica Roofing Co. | 10 50 |
| A. B. Perkins | 22 16 |
| A. M. Merwin | 171 78 |
| A. J. Butler | 199 25 |
| P. Hoffman | 177 95 |
| Dunham Mfg Co | 42 |
| New Boiler | 6 |
| New Engine | 1800 |
| New Stack | 15 00 |
| Coal | 95 |
| A. Seaman & Son | 242 81 |
| | 38 |
| | 1045631 |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frederic H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Continued
Pay Roll Building &c.

\$ 10456 31
500
\$ 10956 31

Mr. Cameron.

I think if it is possible
an assessment of \$12,000
should be made. Mr
Edison of course will receive
credit for amounts paid by
him. Would like to have
some arrangement immediately
especially in order to pay our
glass bill as we cannot have
any trouble there at present.

Yours Truly

Francis R. Upton

Wharton and Bergmann each
have written for money.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Feb 15th 1887

Mr T. A. Edison
65 Fifth Ave. New York
Dear Sir,

As we will need some money soon. We send you an account of what we owe to date.

We owe bills that ought to be paid by March 1st to the amount of _____ 4700. 00

Also bill contracted lately 1382. 00

Pay Roll for next three weeks about \$ 2000. 00
\$ 8082. 00

Loans with Small Mercantile Co. 1939.96

" " Railway Bank \$ 123.00
2063.96

We also enclose check for \$1200. for deposit in Railway Bank. Please enclose and return to us.

*OK with
Edison*

Very Truly
Edison Electric Lamp Co.
Edison

189 THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Feb 18th 1881

Mr T. A. Edison
#65 Fifth Ave.
New York

Dear Sir,

Will you please endorse enclosed checks and return by mail. Check No 46 was returned by you because it was not filled in.

The majority of our checks endorsed by you were not filled in and as we did not know the exact amount we wanted in the check. ^{We} ~~house~~ did not put it in. We are to do so in all cases in the future. Shall we

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Send The invoices of Lamp directly to you or through Mr Carnan. What will we charge for Lamps. I asked you several days ago in a letter, but have not heard. You mentioned in one of your letters orders about Charges ^{say} 30¢ for that order, but did not say whether we should charge 35 in future or not. If you will please inform me I will send invoices in to date.

Very truly Yours
Edison Lamp Co.
P. H. J.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upson,
Edward H. Johnson.

Menlo Park, N. J., March 26 1881

Mr. J. A. Edison
+ 65 Fifth Ave
New York

Dear Sir,

Enclosed find
invoice from E & R
for Dress punch wire for
Maflee Contona.

Shall I turn it over to
Electric Light Co. as
experimental work or shall
we keep it. The Press
is up at Laboratory in
hands of "Alchison".

Yours very truly
Edison Lamp Co.
Byr

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upson,
Edward H. Johnson.

Menlo Park, N. J., March 31 1881

Samuel Inguell
+ 65 Fifth Ave
New York

Dear Sir,

The assessment
made on 22nd Inst. was
\$1,200. Mr Batchelor share
of which, was \$1,200. a
check for which, will be
gratefully received by

Yours very truly
Edison Lamp Co.
R.H.

51-7

Edison Lamp Co.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 4 1887

Mr T. A. Edison,

33rd St. Fifth Ave

New York

Dear Sir,

Mr. Edison brought
no ~~other~~ ^{graphite} Carbons
on Saturday and we paid
him for them at 2nd price.

We are to pay him in
future for all he brings
us. We understand he
is to make 30,000.

Yours Very Truly
Edison Lamp Co.
BYR

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward G. Johnson.

Menlo Park, N. J., April 5, 1887

Paul Smith Esq.
65 Fifth Ave.

New York

Dear Sir:

If possible will
you please send check
for Mr Chas Batchelor's assess-
ment of \$1200. We will
need it this week or part
of it for Pay Roll.

We certainly will have to
make another assessment
soon or borrow some money.

I think it very poor policy
to run this on borrowed
capital for it certainly will
be some time before we can

THE EDISON ELECTRIC LAMP CO.

April 1st

The President

Have a pleasant

make any money on the
Camps at \$100 each

If you cant send check
Please inform us, so we
can make other arrangements

Yours truly
Edison Lamp Co

Dyer

Will you please let us
have A. V. Adams letter
relative to Plains work
We will return it to you

I think it very fine
to have this for
Capital for it certainly will
be soon turned over

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 6th, 1887

Mr. J. A. Edison

65 Fifth Ave

New York

Dear Sir,

Enclosed find check
in 106 \$2225.00 from H. R.
Upton for 1/2 interest in
Edison Lamp Co. Your account
is charged with same,
making your interest 75%
Chas Batchelor 10% J. R. Upton
10% and Ed H Johnsons 5%.

Yours Truly
Edison Lamp Co.
N.Y.C.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 9th 1881

Mr T. A. Edison

Dear Sir

Enclosed is a general statement of our books to date, showing monies received and now expended,

Jan 24 Assessment 12,000

Feb 26 " 12,000

Jan. 7 Recd from E. E. Light Co. 1,700

Cash record — \$25,700

Pay Roll from Jan 6th to April 3rd 5650.00

Glass 1889.00

Carbonyzing Wharton metal 1380.99

Lumber — 2160.06

Masolins 588.37

Pipes fittings &c 886.69

Pumps " 179.65

Bamboo 361.99

Bricks for engine &c 354.97

Hardware Quind 240.88

Tires &c for Clamps 85.00

Coal 369.78

17147.40

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Continued

| | |
|------------------------------------|------------------|
| <i>A. Bergmann</i> | <i>17,474.40</i> |
| <i>Plating room Sund</i> | <i>1832.76</i> |
| <i>Office Desk + Stationary</i> | <i>37.65</i> |
| <i>McKesson Robbins</i> | <i>161.65</i> |
| <i>Co. T. Hughes</i> | <i>386.33</i> |
| <i>Repairing Roof + c</i> | <i>140.01</i> |
| <i>Silver wtn for Clamps</i> | <i>92.20</i> |
| <i>Boilers</i> | <i>54.51</i> |
| <i>Engine \$900. paid</i> | <i>1798.00</i> |
| <i>Stack for Engine + c</i> | <i>950.00</i> |
| <i>Current Sund + c for Engine</i> | <i>143.83</i> |
| <i>Wire for Cutting fish</i> | <i>74.00</i> |
| <i>Painting + c</i> | <i>76.50</i> |
| <i>Pulleys + Shafting + c</i> | <i>75.21</i> |
| <i>A. B. Williams Sund</i> | <i>314.05</i> |
| <i>Atwell + Sons</i> | <i>534.22</i> |
| <i>Corks for Lamps</i> | <i>101.00</i> |
| <i>Morris Tack + c</i> | <i>42.83</i> |
| <i>Mason Work</i> | <i>655.56</i> |
| <i>Plating room</i> | <i>150.74</i> |
| <i>Sund small accounts</i> | <i>381.58</i> |
| | <i>375.08</i> |
| <i>Cash to Bal on hand</i> | <i>25431.64</i> |
| | <i>265.56</i> |
| | <i>25700.00</i> |

about here, on old account

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upson,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Bills we owe

| | |
|-----------------------------|----------|
| T. A. Edison | 2149.55 |
| Leorning Glass Works | 428.62 |
| Pandolfi & Sons | 144.61 |
| Joseph Wharton | 156.26 |
| M. Allen | 70.47 |
| M. E. Euman | 193.65 |
| W. Otisby | 60.70 |
| Chas. Pratt & Co. | 112.52 |
| J. Andrews account | 331.16 |
| P. Bergmann | 1470.25 |
| Fabri. Chamney | 11.70 |
| W. H. Chamney | 24.35 |
| J. H. Rogers & Co. | 56.44 |
| Patterson Bros | 51.94 |
| H. W. Gresham | 2.74 |
| Leonard & Wiley | 9.48 |
| Robt. H. H. Lee | 259.96 |
| Amesbury Brass & Copper Co. | 27.26 |
| S. M. Ford | 25.53 |
| Mica Roofing Co. | 132.71 |
| A. B. Winch | 15.25 |
| Union Mfg. Co. | 9.88 |
| A. J. Ruttle | 50.00 |
| A. Deaman & Son | 16.20 |
| Ed. P. Thompson | 955.63 |
| E. + Russenbarger | 15.00 |
| H. W. C. C. C. | 8.75 |
| Geo. Ferguson | 20.20 |
| Thos. R. K. K. | 82.46 |
| H. B. Lendenmann & Co. | 25.43 |
| Dr. J. A. A. A. A. | 95.47 |
| S. J. A. A. A. A. | 7.68 |
| G. A. A. A. A. | 17.68 |
| Coal | 275.56 ✓ |
| Brick | 90.00 ✓ |

8 7426.26

Some ordered previous to \$2.00 per hour

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 12, 1887

Chas. Batchelor Esq.,

Edison Electric Co.,

"60" Fifth Ave.

New York

Dear Sir,

We have made an
assessment of \$8500. —

Will you please send check
for 10% or \$850. and
oblige us.

Very truly
Edison Lamp Co.
BY

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., April 12, 1887

Mr. J. A. Edison

"60" Fifth Ave.

New York

Dear Sir,

Enclosed find check
for \$2149.70. to settle account.
In consideration of our future
demands. We have made an
assessment of \$8500. —

Will you please send your
check for 75%, or \$6375. —
and oblige,

Very truly Yours
Edison Lamp Co.
BY

Ans'd
THE EDISON ELECTRIC LAMP CO.,
Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., *April 18* 1881

Mr. Saul Insull

Dear Sir,

Please do not
neglect to inform Mr
Carriman about taking
Actison and Moore off
his Pay Roll again.
And had I better
charge what they have
already drawn here to the
E. E. Light Co. as expro-
-prialate. It is nearly
\$100.

Yours very truly
Edison Lamp Co.
Dyer

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 12 1881

Bills we owe —

| | | | |
|---|------------------|---------|-----|
| Glass | 20.00 | Due | |
| Lumber | 196 | Drum 20 | |
| Nickel | 293.76 | 50.00 | |
| Brick + Cement | 200. | Drum 20 | |
| Oil waste + c | 60. | 6 25 | 60. |
| Gasoline | 175. | 60. | 50. |
| Gas + water + Steam fittings | 60. | 6/30 | 30. |
| Resistance boxes + nickel forms | 969. | | |
| Brasses for sockets | 113. | | |
| Printings | 229. | | |
| Boxes Cart. for Sockets ^{Mundgo} | 42. | | |
| Inspector for Engine | 45. | | |
| Solution. Chemicals + c | 300. | 6/30 | 64. |
| Corks for Lamps | 23. | | |
| Engine supplies + c | 107. | | |
| Hardware + c | 98. | | |
| Tools + c | 15. | | |
| Wine | 100. | 6/30 | 27 |
| Coal | 300. | | |
| Betting | 250. | | |
| | 20.26 | | |
| | | 773.00 | |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upson,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Continued
\$880.76

| | | | |
|----------------------------|----------------|------|----------------|
| Smoker Stack | | 6/20 | 773. 00 |
| Roofing + Shuttering Paper | 183. | | |
| "Ornate" tin work fixing | | | |
| Blow pipes Hoods in Glass | | | |
| deft. &c | 200. | 6/15 | 150. |
| Lamp boxes &c | 55. | 6/20 | 40. |
| E. P. Humphreys Engine | 456. | | |
| Blower for " | 72. | | |
| Pulleys " | 10. | | |
| Wooden Sockets | 21. | | |
| Rubber Corks | 253. | 6/20 | 65. |
| Agate work for Pump deft | 10. | | |
| Conduits for Carbonizing | — | 6/20 | 71. |
| Nails window glass | — | 6/20 | 35. |
| Slabs + white Bricks | — | 6/15 | 140. |
| | <u>6880.76</u> | | <u>1496.00</u> |

We can probably get
along with about

3500.
3380.76

Our Pay Roll for the coming month
Plating wire for coming month

3200.
500.
3700.

8776.76

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

*Probable requirements for
month*

| | |
|-----------------|----------------|
| Bells | 3500 |
| Ray Roll | 8200 |
| Platinum | 500 |
| Patent Property | 5250 |
| | <u>\$12450</u> |
| Assessment | \$12500 |

| | |
|---------------|----------------|
| Edisons share | 9875 |
| Batchelors | 1250 |
| Uptons | 1250 |
| Johnsons | 625 |
| | <u>\$12500</u> |

Assessment for

| | |
|--|----------------|
| month | 7250 |
| Patents Property <u>Extraordinary</u> fees | 5250 |
| | <u>\$12500</u> |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

| | |
|----------------------------------|-------------|
| Received April 12 th | 8500, |
| Cash on hand .. 12 th | 478. |
| | <u>8978</u> |

| | |
|-----------------------------------|----------------|
| Bills paid | |
| T. A. Edison | 2150, |
| Bergemann | 1200, |
| Hampson | 500, |
| Platinum | 200, |
| Pay Roll (4) | 5000, |
| | <u>7550,</u> |
| | 1428, |
| Cash on hand May 12 th | 11 00 |
| | <u>\$ 3,28</u> |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Capital account to be opened and
credited E. B. U. & Co. to be debited to
Bartholomew M. L.
to Building & Fixtures
to Machinery & Tools repair %
to " " " " asset %
to " " " " repair %

Glass
Films
Lamp
Socket
Plating
Exhaust
Mercury
Carbon
General Expense

C. Lamp Co

Proposal
for running
gas

12 May 84

THE ED. G. FINE LAMP CO.

7000 1st St

12

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J. May 17th 1887

Dear Sir,

Enclosed find letters, relation to assessment. I can get along all right this week with Mr. Upton check.

But next week we will have to pay Premiums on Policies on this Property.

Boyd and Bergmann is after me and A. B. Winans

of Matthesen wants some money or our him over 300 - no particular hurry however -

Yours Truly,

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson,

Menlo Park, N. J. May 17th 1887

J. A. Edison Esq.

An assessment was determined upon on May 12th for \$7200. actual cash and \$5250. already paid for Peters Property, making \$12500. Your share of which is \$9375. We will return a check to you for your share of Peters Property also a check for the other other shares which you paid,

Yours Truly
Edison Lamp Co.

17500
415330
43371

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Bushnell,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., May 21st 1887

Dear Sirs

On account of last
assessment I will make Capital 1/2
as follows in Journal Dr. Cr.

| | | |
|--------------|---------|-------|
| Capital | | 7250. |
| Edison 75% | 5437.50 | |
| Upton 10% | 725.00 | |
| Bushnell 10% | 725.00 | |
| Johnson 5% | 362.50 | |

Peters Property 1st hypoth. Dr. Cr.

| | |
|----|---------|
| Ed | 3937.50 |
| Up | 325.00 |
| B | 325.00 |
| J | 162.50 |

Cash will credit the full amount in
the first case and debit them in second
case. Is this right or shall I
credit Capital with whole amount of assess-
ment \$12500,

Yours Truly
Chas. Dyer

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie R. Upton,
Edward W. Johnson.

Menlo Park, N. J., May 25th 1881

Dear Insull,

When you send out T.A.
Edison's check for last assessment
send out the full amount and
I will give you a check for \$250.
What kind of an entry would you
make for that transaction of
Mr Edison giving Mr Upton 5% for
\$2225.70. I have T.A. Edison debited
and F.R. Upton credited on my journal.
Please answer at earliest convenience.
Also how about charging up to
Experimental Co. all back of April
or March 1st and the balance to
Lamp Co. -

Your last personal letter to me.
I do not fully understand,
but will get you to explain
when I next go to N.Y. -

Yours Truly,
Chas. A. Edison

signed
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward R. Johnson,

Menlo Park, N. J., *May 26th* 188*7*

Wm. D. Dwyer
May 27
R. Russell

May 27
Dear Sir,

We will want some money for Saturday pay Roll, can you keep us out. Also if possible get the Edison Lamp Co. bills from E.E. Light Co. so we can look over them, to give them the E.E. Light Co. a better idea of what account they belong to, get them at once please so I can fix them up Sunday. You and Dick better come out on Monday the 30th and spend the day here, Yours truly E. Lamp Co. *W.D.D.*

signed
THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward R. Johnson,

Menlo Park, N. J., *May 28th* 188*7*

W.D.D.
J. B. Schickel Esq.

W.D.D.
New York

Dear Sir,

Your check for \$3000, on account of May 17th Assessment, was received. We have credited you with \$500.00 which you paid on East Newark factory. You still owe us on May 17th assess - \$1125, —

Yours very truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie H. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

January 24th 1881

T. A. Edison Esq.

Dear Sir,

We understand
from Mr. Batchelor that
we are to look to you for
the money \$1200. his
share of May 17th assess-
ment. If convenient
we would like it this
week, to help out in Pay
Roll here and at Machine
Shop. Please let us
know at once if we
may expect it by Friday
night.

Yours faithfully
Edison Lamp Co.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

July 1st 1881

| | |
|-----------------------|---------------|
| T. A. Edison Mfg Co. | 301.56 |
| Cond Fruit Jar Co | 223.34 |
| Coming Green Works | 5191.30 |
| Vanderbrink & Sons | 42.07 |
| J. Wharton | 110.50 |
| M. Plummer | 27.63 |
| M. Freeman | 289.98 |
| Chas Pratt & Co. | 88.47 |
| D. Bergmann | 4.50 |
| H. N. A. Stafford | 15.34 |
| W. Heywood Chair Co. | 15.00 |
| W. L. Chase & Co. | 42.25 |
| Jas L. Cox Soft Coal | 46.38 |
| S. Placer Mch. Agency | 5.90 |
| Watt Campbell & Co. | 36.98 |
| Jas McKay & Co. | 26.60 |
| Early & Saur | 6.35 |
| T. Ayres | 7.87 |
| W. B. Bidder | 20.00 |
| C. Smith | 2.35 |
| J. J. & Esau | 15.00 |
| | <hr/> 6494.81 |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upton,
Edward H. Johnson.

Menlo Park, N. J.,188

| | |
|--|----------------------|
| <i>Acmt. forward</i> | <i>6494.51</i> |
| <i>J. F. Rogers & Co.</i> | <i>8,25</i> |
| <i>Goodyear Rubber Co.</i> | <i>4,30</i> |
| <i>Sattler & Co.</i> | <i>5,20</i> |
| <i>Hanson & Van Minkel</i> | <i>22,32</i> |
| <i>Gundrins</i> | <i>29,00</i> |
| <i>Farr & Chauvey</i> | <i>11,70</i> |
| <i>McCluskey & Robbins</i> | <i>52,70</i> |
| <i>McClab & Harlin Mfg Co.</i> | <i>6,56</i> |
| <i>E. Shins</i> | <i>9,75</i> |
| <i>N. Y. Betting & Packing Co.</i> | <i>54,25</i> |
| <i>Patterson Bros</i> | <i>27,02</i> |
| <i>F. W. Gieswein</i> | <i>9,04</i> |
| <i>B. M. Ford</i> | <i>2,06</i> |
| <i>Abundant & Root Mfg. Co.</i> | <i>21,96</i> |
| <i>Mica Roofing Co.</i> | <i>187,09</i> |
| <i>A. B. Williams</i> | <i>274,35</i> |
| <i>A. J. Bytler</i> | <i>40,00</i> |
| <i>Ford & Taylor</i> | <i>17,32</i> |
| <i>Wallace & Son</i> | <i>68,34</i> |
| <i>Baldwin Bros & Co.</i> | <i>34,00</i> |
| <i>W. H. Godfrey</i> | <i>20,45</i> |
| | <hr/> <i>7400,80</i> |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Amount forward 4400.80
Four Mfg. Co. 6.60
Holmes Book and Haydens 160.94
J. W. Devor & Co. 12.27
Drumson Mfg. Co. 2.61
\$7583.22

B. Lamp Co

Statement of
Assets owing
July 31

1. Cash
 2. Accounts Receivable
 3. Notes Receivable
 4. Prepaid Insurance
 5. Prepaid Rent
 6. Prepaid Taxes
 7. Inventory
 8. Fixed Assets
 9. Other Assets
 10. Total

Net Lamp Co.

THE EDISON ELECTRIC LAMP CO.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., July 12th 1881

J. A. Edison Esq.
#68 Fifth Ave.
New York

Dear Sir,

Our assessment
of about \$10,000 is neces-
sary. Your share 75%,
is \$7,500. Will you please
favor me with check at
earliest convenience.
We are coming glass works
about \$5,000. And they would
like us to remit.

Yours very truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., July 12th 1881

Chas. Batchelor Esq.
Per Paul Insulee Esq.
#68 Fifth Ave.
New York

Dear Sir,

Our assessment
of \$10,000 is necessary.
Will you please favor
us with your check
for \$1,000, which is
your share 10% of assess-

Yours very truly
Edison Lamp Co.

Menlo Park, N. J., Aug 18 1881

De Russell Esq.

Dear Sir,

Your telegram was recd
But as Mr. Upton went in
We supposed he would explain
about lamps.
He advanced us \$1200.00
We are all right for this
week. We shall draw for the
of next week.

Very truly,

EDISON LAMP CO. S.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 16th 1881

J. A. Edison Esq.
#65 Fifth Ave.
New York

Dear Sir,

An assessment
of \$10,000 is necessary,
Will you please favor
us with your check
at earliest convenience
for your share 75% or
\$7500, and oblige

Yours very truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 16th 1881

Chas Batchelor Esq.
Box Grand Central Esq.
#65 Fifth Ave.
New York

Dear Sir,

An assessment of
\$10,000 has been agreed
upon. Will you please
favor us with your
check for 10% your
share or \$1,000 at
earliest convenience,

Yours very truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 20th 1887

T. A. Edison Esq.
#65 Fifth Ave.
New York

Dear Sir,
Your check
for \$1000.00 on account
of August 16th assess-
ment was received.
Many thanks for
same.

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 24th 1887

Paul, Insull Esq.
#65 Fifth Ave.
New York

Dear Sir,
We will need
more money for this
works Pay Roll. Can
you please send
us a check. We are
also overdrawn at
Drake Morgan Co. and
should have some
thing in there.
Please answer at your
earliest convenience.

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Betshelm,
Frank R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

Aug 31st 1881

Paul. Jones Esq.
#68 Fifth Av.
New York

Dear Sir,

Can you send
us a check this week
for the Pay Roll about
\$1200, will do. We ought
to have some money
in David Morgan's Co.
also, but can manage
if we get our check
this week. When do you
expect Mr Edison back
from the west?

Yours very truly
Edison Lamp Co.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

THIS COMPANY TRANSMITS AND DELIVERS messages only on conditions, limiting its liability, which have been accepted in its charter by the several States in which it operates. Messages sent by night mail must follow the regular telegraph transmission or delivery of newspapers. Messages sent by day mail must follow the regular telegraph transmission or delivery of newspapers. Messages sent by day mail must follow the regular telegraph transmission or delivery of newspapers. Messages sent by day mail must follow the regular telegraph transmission or delivery of newspapers.

THE MESSAGE IS AN UNREPEATED MESSAGE and is delivered by request of the sender, under the following name and address:

A. R. BREWSTER, Body.

96 MORVIN GREEN, 2-188.

Dated March 2, 1881

Received at 791 BROADWAY.

Edison, Insull

65-5 ave

What about money for this week?

Edison, Insull

281

44

READ THE NOTICE AT THE TOP.

THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

1881

T. A. Edison Esq
#68 Fifth Ave
New York

Dear Sir

Herewith is a statement
of how we stand to date
Capital &c is credited \$800,11.41
We owe Edison E. I. Co. for advancement 7346.00
" English Light 243.00
" Conning Glass works 1730.73
" Chat Burroughs 1128.90
" Fabbri & Chaucney 588.28
" Sundries accounts 4643.93
\$15686.44

Monies due us 529.42
Our firm assessment 800.00
Lamps on hand 6129.42

A+B. 29949 @ 10482.15
A. 7337 @ 2077.95
B. 9409 @ 3293.10
\$22482.67

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

| | |
|----------------------------------|-------------|
| Resistance Lamps | 22,452.67 |
| A, 2704 @ .25 ^c | 676.00 |
| B, 1863 " .35 ^c | 340.75 |
| Lamps manuf | |
| work ending Sept 3 rd | |
| A, 776 @ .35 | 271.60 |
| B, 3174 " .35 | 1098.40 |
| Extra 406 " .35 | 142.10 |
| Total | \$ 25006.52 |

Of the Capital of \$4750, has gone into Machinery & Tool Building Fixtures Mercury on hand, \$5000 has gone into test Lamps, and \$26800, has gone into Pay Rolls.

Of the Debt a part is Machinery & tools, a good part is stock of raw material on hand and the balance general running expenses,

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., *Sept 11* 1881

We owe Sept 1st 1881

| | |
|---|-------------------|
| T. A. Edison mfg of | 266.69 |
| F. R. Upton money advanced | 594.96 |
| Cord Fruit Jar Co. ^{Brass sockets} _{Wings} | 319.20 |
| Corning Glass works | 1738.73 |
| Charles Burroughs ^{Firm} _{Machines} | 1128.95 |
| Landrumb & Sons ^{for packing room} _{Handmade bds} | 27.20 |
| Joseph Wharton | 328.06 |
| M. Freeman | 1.28 |
| Wm. Stainesby oil | 28.05 |
| Chas. Pratt & Co. Gasoline | 264.17 |
| S. Bergmann & Co. Firms | 268.00 |
| Printing of ^{forms for} _{Electric Light Co.} | 42.28 |
| Furber & Co. ^{for} _{Carbon filament} | 33.20 |
| Blowers ^{Boat} _{Charterant} | 253.90 |
| Pabori & Chauncey ^{Firm} | 588.28 |
| McKissin & Robbins ^{series} _{Chemicals} | 120.85 |
| McNab & Harlin | 10.67 |
| N. Y. Betting & Co. ^{Rubber rolls} | 196.18 |
| Patterson Bros ^{Handwritten on} _{3 months} | 59.99 |
| F. W. Lissacoin | 6.98 |
| | <u>\$ 6269.01</u> |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Continued

| | | |
|--------------------|-----------------|-------------|
| English Light | | 6269.51 |
| Edison E. L. Co. | | 248.00 |
| Lehigh V. Coal Co. | | 7346.58 |
| J. R. Hoyt & Co. | Betting | 398.77 |
| A. B. Winans | tin snuff | 23.70 |
| A. J. Butcher | Bones | 26.58 |
| Barcock & Wilcox | White Bars | 168.00 |
| J. Dixon & Co. | | 47.68 |
| Holmes & Hayden | Rings | 212.58 |
| Baldwin Iron Works | Express on wire | 350.56 |
| Sundries etc. | | 24.70 |
| | | 133.21 |
| " Newark factory | | 179.16 |
| Insurance premiums | | 269.00 |
| | | <hr/> |
| | | \$ 18686.44 |

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Sept 19th 1887

J. Aldison Esq.
#65 Fifth Ave.

Dear Sir,

Enclosed
find checks to pay
Insurance premiums.
Please endorse and
return at once, as
they are pushing
us for them.
Can you let us
have the balance on
your last assess- This
work as we must pay
some of our debts at
once.

Yours truly
Edison Lamp Co.
D.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Oct 1st 1887

J. Aldison Esq.
#65 Fifth Ave.

Dear Sir,

New York
We find it
necessary to make
an assessment of
\$10,000, as we have
bills we must
settle at once.
We credit your ac-
count with \$2100, —
already rec'd on
the above assessment.

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson,

Menlo Park, N. J.,

Oct 1st 1881

Edw. H. Johnson
Per Samuel Insull Esq
#65 Fifth Av.
New York

Dear Sir,

A \$10,000 -

assessment is
necessary.

A check for your
share will be rec'd
kindly also check
for assessment of
Aug. 16th.

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

Oct 1st 1881

Chas. Batchelor Esq
Per Samuel Insull Esq.
#65 Fifth Av
New York

Dear Sir,

An assessment
has been made for
\$10,000. Please send
your check for your
share 10% at earliest
convenience,

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie H. Upson,
Edward H. Johnson.

Menlo Park, N. J., Oct 6th 1887

Paul Dussell Esq.
#65 Fifth Ave
New York

Dear Sir,

We will want
a check for this weeks
Pay Roll about 8 or
\$900, will do. Make
it payable to my order
as J.R. Upson will probably
be away. his father is
very ill and he want
to see him last evening.

Yours truly

Edison Lamp Co.
T. A. Edison

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie H. Upson,
Edward H. Johnson.

Menlo Park, N. J., Oct 19th 1887

Paul Dussell Esq.
#65 Fifth Ave.
New York

Dear Sir,

If possible we
would like the balance
on T. A. Edison's last
assess. \$600. and four
money from E. H. Johnson
would be acceptable, as
we have no money in
Railway Bank and over-
drawn at Bank M. of C.
\$400. Our pay Roll this
week will be about \$1200.

Yours truly

Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Spion,
Edward H. Johnson.

Oct 27th 1881
Menlo Park, N. J.

Paul Dunsell Esq.
#68 5th Ave.
New York

Dear Sir,
Can you let
us have E. H. Johnson
assessments this week
to meet our Pay Roll.
Have you sent that
invoice to Wrexel Morgan
& Co. It would be
better for us to let
"Beddyman" have his
camps at 50¢ each
cash than to hold them
here as we need the
money. See what you
can do about it.
Yours truly, Edison Lamp Co.

Oct. 30th,

Edison Lamp Co.

Menlo Park, N.J.

Dear Sirs:--

I cannot pay you Mr. Johnson's assess-

ments as he has not put me in funds to do so. I

will, however, cable him on the subject and advise

you of the result.

Yours truly,

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upson,
Edward H. Johnson.

Menlo Park, N. J., Nov 1st 1881

J. A. Edison Esq.

#62 5th Ave.

New York

Dear Sir,

Enclosed find
check for your
invoice amount.

Please return at once,
we received instructions
from Edison Elec.

Light Co. to charge
Lamps for South
America at 30¢ and
we sent in an invoice
at that price, and we
to get 30¢ for these lamps

Yours truly
Edison Lamp Co.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov 2nd 1887

T. A. Edison Esq.
#68 Fifth Ave
New York

Dear Sir,

Before any reg-
ular assessments were made
\$17511.41 was paid out on account
of this company

| | | |
|------------|---------------------------|----------|
| Assessment | Jan'y 26 th | 15000.00 |
| " | February 22 nd | 12000.00 |
| " | April 12 th | 8500.00 |
| " | May 17 th | 12500.00 |
| " | July 8 th | 10000.00 |
| " | Aug 16 th | 10000.00 |
| " | October 1 st | 10000.00 |

\$ 93511.41

Yours truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Brushster,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov 5th 1887

Paul, Duane Esq.,
#65 Fifth Ave.,
New York

Dear Sir,

We have made
an assessment of
\$10,000 — will you
kindly send us
checks for Mr Chas
Bachman and E. H.
Johnson. Whom you
represent —

Yours very truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Brushster,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov 5th 1887

J. A. Edison Esq.,
#65 Fifth Ave.,
New York

Dear Sir,

We find it
necessary to make
an assessment of
\$10,000 — We have a
Gross bill of about
\$4,000 and there is
\$500 due on Newark
property next week.

Yours very truly
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

May 16th 1881

Paul J. Esq.
#65 Fifth Ave.
New York

Dear Sir,

We received a
notification from
Dr. J. Morgan. This
A.M. asking for
check - We can over-
draw them \$1900.

Can you help us out
by depositing them?
We have sent 2000
Lamps to London and
when we get check for
them, which will be as
soon as we can get
notice to them. We
can turn check over

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

to you. The Edison
E. Light Co. owes us
about \$700. The
European E. Light Co. ⁵⁶
owes us about \$1262.⁵⁶
If you deposit for
us, telegraph and
oblige.

Yours very truly
Edison Lamp Co.

Blank No. 1

THE WESTERN UNION TELEGRAPH COMPANY.

This company transmits and delivers telegrams by day or night, on condition, limiting its liability, except in cases of fire, to the order of the telegraph company, and the sender of the telegram, and the Company will not be responsible for any loss or damage to the telegraph company or its property.

The telegraph company is not responsible for any loss or damage to the telegraph company or its property, and the sender of the telegram, and the Company will not be responsible for any loss or damage to the telegraph company or its property.

A. B. BAKER, Secy.

W. C. BAKER, President.

Date March 18 1881.

Received at 791 BROADWAY

for Samuel Insull

60.00ave

READ THE NOTICE AT THE TOP.

We can, if possible
deposit nine hundred
with demand

Edison Lamp Co

1200 ma

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wire.

THE EDISON LAMP CO.,

*John A. Edison,
Chair, Institution,
and now in Boston
and now in London*

Menlo Park, N. J., *Nov 28th* 1881

*Paul Duane Esq.,
#65 Fifth Ave.,
New York*

Dear Sir,

We are not going
to pay off till Monday
and a check for about
\$12.00 will answer if
received on Saturday.

Please look over the
Lamp Co's contract and
settle with Mr Goddard
relative to changing lamps
to Edison Light Co.

Please get order for
lamps for order
on 12th inst.

Sincerely
Edison Lamp Co. &c.

THE EDISON LAMP CO.,

*John A. Edison,
Chair, Institution,
and now in Boston
and now in London*

Menlo Park, N. J., *Nov 28th* 1881

*Paul Duane Esq.,
#65 Fifth Ave.,
New York*

Dear Sir,

Your letter
relative to Drafts on
Electric Light Co. at
hand, We also found
enclosed a check for
\$100.00 on account
of P. A. Edison's assessment
of Nov 5th. Many thanks
for same

Yours truly

Edison Lamp Co. &c.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Bateman,
Francis B. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

Nov 30th A. 1888

J. A. Edison Esq.

Dear Sir,

Herewith is a statement of how we stand to date.

Capital up is credited
We owe
E. & S. Co. for advancement
Money due
Lamps on hand

| | |
|--|------------------|
| | 105511-41 |
| | 15068-39 |
| | 7171-60 |
| | <u>127751.40</u> |
| | 10327.44 |

A. & B. 80,587 @ .58
16 candle B. 1096 " "
Resistance 11,406 " "

| | |
|--|-----------------|
| | 28208.45 |
| | 583.60 |
| | 3992.10 |
| | <u>42908.59</u> |

Pay Roll for work ending
Nov 24th 5 days

| | |
|--|---------|
| | 1077.13 |
|--|---------|

Lamps made during
work ending Nov 28th 13 days

| | |
|-----------------|----------------|
| a. Lamps @ 1629 | 870.15 |
| B. " 267 | 93.45 |
| Resistance 156 | 54.60 |
| | <u>1018.20</u> |

Respectfully, Edison Lamp Co.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

| | |
|---------------------------------------|---------------------|
| <i>Our credits —</i> | |
| <i>T. A. Edison</i> | \$ 7000.00 |
| <i>Wm. Cammell & Co. for coal</i> | 49.06 |
| <i>E. E. Light Co.</i> | 731.11 |
| <i>Malby S. Chauncey</i> | 325.00 |
| <i>Canadian Factory</i> | 687.96 |
| <i>European E. Light</i> | 387.56 |
| <i>Edison Machine Works</i> | 210.25 |
| <i>E. Nibel Co.</i> | 17.50 |
| <i>Bergmann & Co.</i> | 35.00 |
| <i>European E. L. Co. Opera House</i> | 875.00 |
| <i>Cornell University</i> | 9.00 |
| | <u>\$ 10,527.44</u> |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Nov 30th 1881

We owe —

| | |
|----------------------------|---------------|
| T. A. Edison Mfg Co | 957.04 |
| E. H. Johnson | 500.00 |
| F. R. Upton | 1533.53 |
| Corning Glass Wks | 3296.97 |
| W. H. & Co. Boston | 166.65 |
| James Beggs & Co. | 53.84 |
| Smith & Co. Sales | 35.75 |
| W. K. & Co. Boston | 373.11 |
| Salamander Wks | 86.76 |
| A. B. Kimball | 47.81 |
| A. J. Butler | 105.00 |
| Andonia Brass & Copper Co. | 6.31 |
| Tower Mfg Co. | 8.22 |
| J. B. Holt | 3.45 |
| W. & A. Jar Co. | 530.65 |
| C. Burroughs | 261.36 |
| Vanderbeek & Sons | 249.60 |
| J. Wharton | 1300.25 |
| W. Plumb | 16.17 |
| W. Freeman | 7.97 |
| C. Pratt & Co. | 190.29 |
| | <hr/> 9731.63 |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis B. Upson,
Edward H. Johnson.

Menlo Park, N. J., 188

| | |
|------------------------|-------------------|
| S. Bergmann & Co. | 97 31.63 |
| Sundries | 1329.40 |
| Pathe & Chauncey | 437.40 |
| Patterson Bros | 2038.03 |
| H. C. B. & Co. | 164.43 |
| A. H. Gesswein | 147.37 |
| Arthur & Bonnell | 31.48 |
| Wm H. Godfrey | 25.85 |
| Dixon C. Co. | 18.93 |
| Wallace & Sons | 114.00 |
| Lehigh Valley Coal Co. | 81.42 |
| H. B. Lindenman & Co. | 652.72 |
| Baldwin Bros & Co. | 135.30 |
| Deroe & Co. | 13.80 |
| Dennison Mfg Co. | 19.93 |
| J. Hayward & Co. | 60.00 |
| H. Duke Co. | 34.00 |
| Jamer Jacobs & Co. | 6.00 |
| | 36.71 |
| | <hr/> \$ 15068.39 |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Dec 20th 1881

J. A. Edison Esq.

Dear Sir,

Herewith is a statement
of how we stand to date -

| | |
|-------------------------------|---------------------|
| Capital &c is credited | 105511-41 |
| We owe - | 18682-19 |
| E. E. M. Co. for advancement, | 7500.00 |
| | <u>\$ 131693.60</u> |

Money Our \$ 4425-14

Lamps on hand

A+B, 83,129 @ .30 29078-15

Residual 13,409 @ .25 3352-25

\$ 36872.54

Yours truly
Edison Lamp Co.

Mr. Edison has seen this

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Dec 20 th 1881

T. A. Edison Esq
#65 Fifth Ave.
New York

Dear Sir,

As advised we
make an assessment
of \$10,000 ⁵⁰/₁₀₀ — (\$7,000)
(Your share 70% or \$7,000.)
We have received on account
of your share \$1720. ⁷⁰/₁₀₀ —
leaving a balance of
\$5280. ³⁰/₁₀₀ due us —
We owe about \$18682,
a great part of which
we will have to meet
soon.

Yours truly,
Edison Lamp Co.,
Francis R. Upton Secy.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Dec 20 th 1881

Chas Batchelor Esq.
Per Daniel Insule Esq.
#65 5th Ave.
New York

Dear Sir,

As advised by
T. A. Edison Esq. we
make an assessment
of \$10,000 ⁵⁰/₁₀₀ — Your
share of which is
10% or \$1,000. ⁵⁰/₁₀₀ —
Your check for
above amount would
be received with
great pleasure.

Yours truly,
Edison Lamp Co.,
Francis R. Upton Secy.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Basileon,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., Dec 21st 1881

Saml. Insull Esq.

Dear Sir,

The Edison
Machine works our
us \$1900, on foreign
orders, can you get
that, this week.

We also enclose a
draft of \$200, from
John C. Brauer which
we have paid. We have
it charged to E. E. Light
Co.

Yours truly

Edison Lamp Co.
L^y

THE EDISON LAMP CO.,

Thos. A. Edison,
Chief Engineer,
Franklin R. Upson,
Edward H. Johnson.

Menlo Park, N. J., Dec. 21st 1881

Paul Dussell Esq.
#68 Fifth Ave.
New York

Dear Sir,

Enclosed find
bill for 6x9 1/4 Films.
We have charged it to
E.E. Light Co. If possible
get the money on it
for us this week.
We will draw drafts in
full for all orders
from the E.E. Light Co.
about the last of this
month. We will be ready
to pay off Friday and
would like to get about
\$200. before that time.
Sincerely Edison Lamp Co.

P.S. We shut down here
Thursday night for two
weeks — E. Sampson.

Blank No. 1.

015
THE WESTERN UNION TELEGRAPH COMPANY.

THIS COMPANY TRANSMITS AND DELIVERS MESSAGES only on conditions, including its liability, which have been accepted by the sender of the following message, to the sending station for completion, and the Company will not be responsible for the accuracy, correctness, completeness or delivery of the message.

This message is an **URGENT** message and is delivered by request of the sender under special conditions stated above.

A. R. BRADY, Secy.

NORVIN GREEN, President.

Dated *March 21st 1891*

Received at **791 BROADWAY.**

Sam'l Laull

60 save

READ THE NOTICE AT THE TOP.

*We are waiting
for your telegraph
about money*

Edamp

Edamp

IF THIS TELEGRAM HAS JUST BEEN RECEIVED AT THE OFFICE IN

791 BROADWAY, near Tenth Street,

WHERE ANY REPLY SHOULD BE SENT.

Direct Wires.

THE EDISON LAMP CO.,

Paid
Jas. A. Edison,
Frank B. Upson,
Edmund H. Johnson.

Menlo Park, N. J.,

Dec 23rd
1881

Paul Durall Esq.,
#60 5th Ave,
New York

Dear Sir,

Your telegram
received. We have credited
J. A. Edison's account with
\$1200.00 on account of
assessment of Dec,
20th —

Yours Truly
Edison Lamp Co.

THE EDISON LAMP CO.,

John A. Edison,
Chief Engineer,
Frank B. Wilson,
General Manager.

Menlo Park, N. J.,

Dec 24th 1881

Paul Insull Esq.
#68 5th Ave.
New York

Dear Sir,

Enclosed
find letter from
C. Goddard Esq. As
far as we know this
is all we have against
the Light Co. outside
of the Lamp account.
Please show this letter
to Mr Edison. He may
intend the Light Co. to
pay us for changing
sockets or for testing
experiments.

Yours truly,
Edison Lamp Co. &c.

THE EDISON ELECTRIC LIGHT CO.,
8 FIFTH AVENUE.

New York December 23^d 1887

W. J. S.
Edison Lamp Co.

Dear Sir

Mr Insull has handed me a bill of \$14.⁷⁵ for certain experimental work and a draft of J. C. Brunner for \$200 which he asks me to pay. It will be necessary for me to bring this matter before our Executive Committee and in doing so I wish to be able to state that this is in full of all demands of this nature on the part of the Lamp Co to date. If therefore you have any further items please send them to me with letter to the effect that the account is in full, if this is all please advise.

Yours truly
C. S. Insull

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J.,

188

| | |
|-----------------------------|---------------|
| W. O. Orr | |
| O. A. Edison Mfg Co | 579.06 |
| F. R. Upton | 594.16 |
| Con. Enick & Co. | 338.28 |
| Common Glass Works | 2188.53 |
| Charles Burroughs | 1128.95 |
| Drawings for Paris | 25.00 |
| Vanderbilt & Sons | 116.77 |
| J. W. Harrison | 1683.78 |
| Jim Stainey | 28.05 |
| Chat Pratt & Co. | 186.67 |
| McNab & Harlin | 10.92 |
| Burgmann & Co. | 389.20 |
| Dunbar & Co. | 357.50 |
| Farver & Chaumy | 588.28 |
| McCaskey & Robbins | 100.00 |
| Parsons Bros | 69.70 |
| N. Y. Belling & Packing Co. | 154.63 |
| James Briggs & Co. | 40.50 |
| J. B. Hoyt & Co. | 33.88 |
| B. C. Refining Co. | 31.20 |
| Platina Wm | 717.27 |
| | <hr/> 9323.13 |

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

| | | | |
|----------------------|----|---|----------|
| | 9 | 3 | 23.13 |
| Holmes & Haydens | | | 350.36 |
| Flodora Co | | | 4.40 |
| J. Rayner Co | | | 29.30 |
| Cork & Ruess | | | 45.00 |
| Wm. H. Goddard | | | 8.93 |
| J. Dixon & Co | | | 226.35 |
| Barber & Co | | | 48.25 |
| W. H. Harrison | | | 28.07 |
| Barber & Wilson | | | 47.60 |
| P. Hartman | | | 8.50 |
| A. J. Butler | | | 120.00 |
| A. B. Williams | | | 26.53 |
| Lehigh Valley Gas Co | | | 328.77 |
| Edmunds & Co | | | 14.17 |
| | \$ | | 10814.66 |

1881. Electric Light - Edison Electric Lamp Company - Lamp Test Reports (D-81-025)

This folder contains correspondence and reports relating to lamp tests conducted by William J. Hammer and John T. Marshall.

Approximately 50 percent of the documents have been filmed. Routine correspondence and duplicate test reports have not been filmed.

T. A. EDISON,

Menlo Park, N. J., _____ 1880.

Test of

Jan. 4th 1881

Total power developed

including friction 81.544 H.P.

No. of lamps 464.

Lamps per H.P. 5.7

Assuming 9 lbs. of steam per
pound of coal - $3\frac{1}{2}$ lbs.

will evaporate 31.4 lbs. of water

Assuming one horse power
developed by 22 lbs. of steam
per hour the number of
lamps per $3\frac{1}{2}$ lbs. of coal
per hour will be

$$\frac{5.7 \times 31.4}{22} = 8.1 \text{ lamps.}$$

Damp Enclay

May 4. 81

Economy Test

*Statement of Tests of the
Economy of the Edison Electric Light.
Muelo Park, N. J. Jan. 1880.*

Dec. 19th 1880.

| | |
|------------------------------|-------------------------|
| <i>Total no. of lamps</i> | <i>183</i> |
| <i>Lamps per horse-power</i> | |
| <i>including field</i> | <i>6.15</i> |
| <i>Steam per horse-power</i> | <i>35 lbs. per hour</i> |
| <i>Total power developed</i> | <i>41.75 H.P.</i> |
| <i>Consumed in friction</i> | <i>12 H.P.</i> |

Dec. 24th 1880.

| | |
|------------------------------|-------------------------|
| <i>Total no. of lamps</i> | <i>397</i> |
| <i>Lamps per horse-power</i> | |
| <i>including field</i> | <i>6.96</i> |
| <i>Steam per horse-power</i> | <i>25 lbs. per hour</i> |
| <i>Total power developed</i> | <i>72.4 H.P.</i> |
| <i>Power with field</i> | <i>22.19 H.P.</i> |
| <i>Friction alone</i> | <i>15.35 H.P.</i> |

Jan. 1, 1881

| | |
|--|---------------------|
| Total no. of lamps | 408 |
| Lamps per horse-power
including field | 6.59 |
| Steam per horse-power | 2 1/2 lbs. per hour |
| Total power developed | 82.3 H.P. |
| Power with field | 27.35 H.P. |
| Friction alone | 20.35 H.P. |

Jan. 4, 1881.

| | |
|--|---------------------|
| Total no. of lamps | 464 |
| Lamps per horse-power
including field | 7.1 |
| Steam per horse-power | 2 1/2 lbs. per hour |
| Total power developed | 81.5-44 H.P. |
| Power with field | 23.23 H.P. |
| Friction alone | 16.29 H.P. |

Average results

| | |
|-----------------------|-----|
| Lamps per horse-power | 6.7 |
|-----------------------|-----|

Lump Factory

Dec 4, Jan, 8071

Economy List

4,500
 1,500
 4,400
 250
 4,100
 650
 10,000
 500
 11,000
 4,100
 1,000
 5,100
 0,81
 9,81
 9,81
 0,06
 5,71
 12,921
 0,21
 0,06

4/7

1877

Total invested RR
 4,306,191.02
 Net earnings \$1,701,976.69
 Net proceeds
 \$98,820.92
 Div on stock
 \$58,556.312

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

Order 285

Set of Ten 10 Regulars, pat; cu, deposit-
clamps, taken from the Regular run, (brought-
up high on the pumps &c) & tested at 16 Candles

| | | |
|---|--|---|
| <p>No 1,
1st Test April 16 '81
108 Volts.
49 Ohms D.C.
16 Candles
2 Test May 5
98½ Volts
16 Candles (full)
3rd Test May 18
103½ Volts
16 Candles</p> | <p>No 2
1st Test April 16 '81
100 Volts.
54 Ohms D.C.
16 Candles.
2nd Test May 5
Broken
173 Hours
2nd in order
going</p> | <p>No 3
1st Test April 16 '81
105 Volts
49 Ohms D.C.
16 Candles
2nd Test May 5
99½ Volts
16 Candles
3rd Test May 18
102 Volts
16 Candles.</p> |
| <p>No 4, 1st Test April 16 '81
102 Volts.
48 Ohms D.C.
16 Candles
2nd Test May 5
98½ Volts
16 Candles (full)
3rd Test May 18
112½ Volts
16 Candles (full)</p> | <p>No 5, 1st Test April 16 '81
103 Volts.
47 Ohms D.C.
16 Candles
2nd Test May 5
97 Volts.
15.75 Candles.
3rd Test May 18
101 Volts.
16 Candles.</p> | <p>No 6,
1st Test April 16 '81
103 Volts.
50 Ohms D.C.
16 Candles
2nd Test May 5
97 Volts.
15.9 Candles.
3rd Test
102 Volts
16 Candles (beam)</p> |

Continued on next sheet.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward N. Johnson.

Menlo Park, N. J., 188

7th
1st Test-Apr 16-'81

104 Volts.
49 Insulated.
16 Candles.
2nd Test-May 6.
98 Volts.
16 Candles (free).
3rd Test-May 18
102½ Volts.
16 Candles (free).

8th
1st Test-Apr 16-'81

101 Volts.
53 Insulated.
16 Candles.
2nd Test-May 6
95½ Volts.
16 Candles
3rd Test-May 18
99 Volts.
16 Candles.

No 9, 1st Test-Apr 16-'81

104 Volts.
50 Insulated.
16 Candles.
2nd Test-May 6
99 Volts.
16 Candles.
3rd Test-May 18
102 Volts
15.75 Candles

No 10
1st Test-Apr 16-'81

107 Volts.
46 Insulated.
16 Candles.

E.M.F. ran up
Spd. formed Greening
clump wire to
going 1st in order of
going 560 min

This test has run up
to 3 P.M. May 24-'81
28272 min or
387+ hours

at 16 Candles.
8 of 10 still burning.

These tests show very slight if any
changes.

It will be noticed that
the Volts. change somewhat-espec-
ially in the 2nd Test; the cause
of this is the reading of the
Volt scale, being a little wrong
as the instrument was a little
out, this however affected the
Volt reading alone as the
standard was correct & the
candle power correctly & care-
fully made

P.S. This is a free & correct record of this test
up to date
Hammer

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis H. Upton,
Edward H. Johnson.

Menlo Park, N. J., *June 22* 188*8*

T. A. Edison Esq.

Dear Sir,

The following is the report of the
life of lamps now burning in the 16 candle power
test.

At 5:30 AM. *June 22*.

Lot of 10 Reg. A. (8×17) = 831^h 54^{min}
(7 still burning)

Will give $15\frac{1}{2}$ to 16 available candle power

Lot of 10 Reg. B. ($8 \times 13\frac{1}{2}$) = 324^h 24^{min} .
(8 still burning)

Give 16 candles full.

Lot of 10 Reg. B. ($8 \times 13\frac{1}{2}$) = 129^h 25^{min}
(8 still burning)

We have been giving this report almost daily to Mr. Edison
under the impression that it was to go to you; and so
failed to make direct report. It seems however that his
report was for Mr. Batchelor and we shall therefore
report hereafter daily by mail.
Yours truly, Edison Lamp Co. N.

Order 285

Set of Four (10) Regulars at 16

Candles

Time of burning up to 5.15

P.M. June 9-81

68/39137

652 Hours.

Two of this set have gone since
the set was put up

the 1st Lasted 560 min

" 2nd " 10442 min

8X17X6

8X11X6

Order 356

Set of Four A Lamps
from 1st lot from new cutting
mould

8X13½X6

Time up to 5.15 P.M. June 9-81

9735 min or 162 Hours.

Two of this set have gone since
the set was put up

the 1st after 2250 min

" 2nd " 3835 "

Mr Edison the list I sent you a few days ago com-
prised all the lamps in both sets including the Candle
Power test two of each set had gone + then I gave you the
Candle Power

cells. I suppose you are aware there were
but 10 in each set - irregularly & not-
12- in some of the sets.

I will send you full information
of this & after the next test - the
data relative to it.

Yours Respectfully

W. L. L.

J. Hammer

to
L. L. L.
Hammer
L. L. L.

to
L. L. L.
Hammer
L. L. L.

to
L. L. L.
Hammer
L. L. L.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J.

July 12th 1881

J. A. Edison Esq.

Dear Sir,

Below is full statement

of special test Lamps.

| Order | Lamps | Life |
|---------------|-------|----------------------|
| 280 | 1 | 6 ^h 20' |
| 10 A. Lamp | 2 | 67 ^h 2' |
| (8 X 17) | 3 | 75 ^h 0' |
| | 4 | 94 ^h 08' |
| at 16 Candles | 5 | 104 ^h 13' |

Left at 16 Candles having burned
1098^h 40' at 5 P.M. July 9th 1881-

| Order | Lamps | Life |
|--------------|-------|----------------------|
| 356 | 1 | 57 ^h 30' |
| | 2 | 64 ^h 15' |
| 10 A. Lamp | 3 | 85 ^h 56' |
| (8 X 13 1/2) | 4 | 46 ^h 46' |
| 16 Candles | 5 | 430 ^h 50' |

Left at 16 Candles having burned
592^h 10' at 5 P.M. July 9th

| Order | Lamps | Life |
|--------------|-------|----------------------|
| 332 | 1 | 64 ^h 20' |
| | 2 | 37 ^h 30' |
| 8 Lamps | 3 | 182 ^h 10' |
| (8 X 13 1/2) | 4 | 279 ^h 45' |

Left at 8 Candles having burned
440^h 20' at 5 P.M. July 9th

Yours Truly Edison Lamp Co. 245

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 15th 1881

Saul Inoué Esq.
Dear Sir,

Yours of the 15th inst
requesting a statement of
the life of lamps in the
16 candle power list.
We would respectfully call
attention to the following
data,

| Order | Lamps | Life |
|------------------------|-------|-----------|
| | # | |
| 250 | 9 | 9' 20" |
| 10 A Lamps | 3 | 174" 5' |
| (8x17 Carbon) | 3 | 783" 3' |
| at 16 Candles | 4 | 948" 38' |
| | 5 | 1047" 13' |
| 6-10 up to 7 AM today. | | 1336" 16' |

Number *om Lamp broken by accident.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frenole R. Upton,
Edward H. Johnson.

Menlo Park, N. J., 188

| Order | Lamps | Life |
|--------------------------|-------|----------------------|
| 356 | 1 | 37 ^h 30' |
| 10 A Lamps | 2 | 64 ^h 18' |
| (8 X 13 1/2 Carbons) | 3 | 334 ^h 56' |
| at 16 Candles | 4 | 463 ^h 41' |
| | 5 | 478 ^h 50' |
| | 6 | 688 ^h |
| 7 to 10 up to 7 am today | | 829 ^h 1' |
| Order | Lamps | Life |
| 372 | 1 | 44 ^h 25' |
| 10 B. Lamps | 2 | 37 ^h 28' |
| (8 X 13 1/2 Carbons) | 3 | 182 ^h 40' |
| at 8 Candles | 4 | 279 ^h 45' |
| | 5 | 329 ^h |
| 6-10 up to 7 am today | | 643 ^h 21' |

All broken naturally
Yours faithfully
Edison Lamp Co.

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Brush,
Francis W. Upton,
Edward H. Johnson.

Menlo Park, N. J., Aug 15th 1881

David Insull Esq.,
New York

Dear Sir

Referring to
yours of 10th inst requesting
a statement of the
Life of Lamps in
the 16 candle power test,
We would respectfully
call attention to the
following data.

| Order | Lamp | Life |
|--------------------------|------|-----------------------|
| 255 | 1 | 9 ^A 20' |
| 10 A. Lamps
(8 x 17) | 2 | 674 ^A 2' |
| at 16 Candles | 3 | 753 ^A 3' |
| | 4 | 748 ^A 38' |
| | 5 | 1047 ^A 13' |
| 6-10 up to 7 a. m. today | | 1336 ^A 16' |

THE EDISON LAMP CO.,

2

Thos. A. Edison,
Chas. Gustafson,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

Number 1 lamp of set 288
was broken by accident the
other four busted in the
natural way

| Order | Lamp | Life |
|---------------------------|------|----------------------|
| 386 | 1 | 37 ^h 30' |
| 10 A. Lamps | 2 | 64 ^h 15' |
| (8 x 1 1/2 carbon) | 3 | 354 ^h 56' |
| at 16 Candles | 4 | 463 ^h 46' |
| | 5 | 475 ^h 50' |
| | 6 | 688 ^h |
| 7 to 10 up to 7 am to day | | 829 ^h 1' |

All broken naturally.

| Order | Lamp | Life |
|--------------------|------|----------------------|
| 372 | 1 | 4 ^h 25' |
| 10 B. Lamps | 2 | 37 ^h 25' |
| (8 x 1 1/2 carbon) | 3 | 182 ^h 40' |
| at 8 Candles | 4 | 279 ^h 45' |
| | 5 | 329 ^h |

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Franklin R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

6 to 10 up to 7 am today 6:43^h 21'
All broken naturally

Yours truly
Edison Lamp Co.

(Sept 30, 1881)

RECORD OF SPECIAL EXPERIMENTAL LAMPS

SET UP AT MEMLO PARK, N. J.

Order 285

Set of Ten (10) Lamps $\frac{11}{1000} \times \frac{17}{1000} \times 6$ ^{In.}

3
34 Lamps per Horse Power.

| | Hours | Min. |
|-------------------------------|-------|------|
| 1st. in order of going lasted | 9 | 20 |
| 2nd. do | 474 | 2 |
| 3rd. do | 753 | 3 |
| 4th. do | 941 | 36 |
| 5th. do | 1047 | 13 |
| 6th. do | 1017 | |
| 7th. do | 1787 | |
| 8th. do | 1920 | 31 |
| 9th. do | | |
| 10th. do | | |

Nos. 9 & 10 are still running their record up to date,

Sept. 30, 1881, 2113 hours. Average up to date - 1208 hours.

Order 356

$\frac{11}{1000} \times \frac{13}{1000} \times 6$ ^{In.}
Ten (10) Lamps 1000 X 1000 X 6 Candles. Ten (10) Lamps per

Horse Power.

| | Hours | Min. |
|-------------------------------|--|------|
| 1st. in order of going lasted | 37 | 30 |
| 2nd. do | 64 | 15 |
| 3rd. do | 354 | 56 |
| 4th. do | 463 | 46 |
| 5th. do | 475 | 50 |
| 6th. do | 655 | |
| 7th. do | 1214 | 55 |
| 8th. do | 1371 | 30 |
| 9th. do | 1577 | |
| 10th. do | Still on up to Sept. 30th 1881 - Time 1695 hours | |

Average up to date 782 hours.

Order 372

"B" or half lamps at 8 candles $\frac{8}{1000}$ X $\frac{13\frac{1}{2}}{1000}$ X In.

20 per Horse Power.

| | | Hours | Min. |
|-------------------------------|----|-------|------|
| 1st. in order of going lasted | | 4 | 25 |
| 2nd. | do | 37 | 25 |
| 3rd. | do | 132 | 40 |
| 4th. | do | 279 | 45 |
| 5th. | do | 520 | |
| 6th. | do | 660 | |
| 7th. | do | 767 | |
| 8th. | do | 1132 | 11 |
| 9th. | do | | |
| 10th. | do | | |

9 & 10 still on up to date, Sept. 30, 1881 - Time 1421 hours

Average time up to date - 639 hours.

William J. Hammer.

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie H. Upton,
Edward H. Johnson.

Menlo Park, N. J., November 22, 1881

Mr. P. A. Edison

Dear Sir

Please find below the record of the several orders of experimental lamps up to 3-00 P.M. to-day at 45 candles.

| | | | | | |
|-----|---------|----------|-----|-----------|---------|
| 517 | Day run | Nov. 16. | 524 | Night run | Nov. 16 |
| 523 | " " | " 17 | 526 | " " | " 17 |
| 525 | " " | " 18 | 527 | " " | " 18 |
| 528 | " " | " 19 | | | |

| | | | | | | | |
|----|------|------|------|------|------|------|------|
| | 517 | 524 | 523 | 526 | 525 | 527 | 528 |
| 1 | 30 | 501 | 20 | 99 | 75 | 115 | 215 |
| 2 | 40 | 1020 | 570 | 240 | 113 | 455 | 270 |
| 3 | 60 | 1405 | 632 | 385 | 135 | 485 | 655 |
| 4 | 495 | 1625 | 475 | 578 | 363 | 1315 | 740 |
| 5 | 635 | 1975 | 1260 | 845 | 425 | 1475 | 1035 |
| 6 | 745 | 2430 | 1310 | 1155 | 625 | 1715 | 1035 |
| 7 | 915 | 2705 | 1375 | 1370 | 822 | | 1515 |
| 8 | 1125 | 3190 | 1380 | 1775 | 2175 | | 1615 |
| 9 | 1385 | 3675 | 1765 | 1780 | 2205 | | 1810 |
| 10 | 2170 | | 1903 | | | | |

Yours truly
R. Marshall

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., *November 23, 1881*

Mr. P. A. Edison; Dear Sir;

Please find below the record of the several
48 candle tests up to 3-00 P.M. to-day.

525 - Day run Nov. 18. 524 - Night run Nov 16.

528 - " " " 19. 526 - " " " 17.

529 - " " " 21. 527 - " " " 18.

530 - " " " 21.

| | 524. | 526 | 525 | 527 | 528 | 529 | 530 |
|----|------|------|------|-------|------|------|------|
| 1 | | | | | | 240 | 170 |
| 2 | | | | | | 255 | 190 |
| 3 | | | | | | 345 | 255 |
| 4 | | | | | | 385 | 575 |
| 5 | | | | | | 680 | 805 |
| 6 | | | | | | 975 | 985 |
| 7 | | | | 17 15 | | 1090 | 1420 |
| 8 | | | | 24 25 | | | |
| 9 | | | | 29 35 | | | |
| 10 | 5180 | 3745 | 3465 | | 2785 | | |

16 candle test - 285-1 - 2989-16

Yours truly
J. P. Marshall.

THE EDISON ELECTRIC LAMP CO.,

Thomas Edison,
Chas. Langmuir,
Francis B. Upson,
Edward H. Johnson.

Menlo Park, N. J., November 25 1881

Mr. P. A. Edison;

Dear Sir;

Please find below the record of the several
48 candle tests up to 3-50 P. M. to-day.

529 Day run Nov. 21. 527 Night run Nov. 18
531 " " " 22. 530 " " " 21
532 " " " 22

| | 527 | 529 | 530 | 531 | 532 |
|----|------|------|------|------|-----|
| 1 | | | | 150 | 70 |
| 2 | | | | 180 | 190 |
| 3 | | | | 395 | 295 |
| 4 | | | | 435 | 405 |
| 5 | | | | 600 | 575 |
| 6 | | | | 840 | 635 |
| 7 | | | | 850 | 840 |
| 8 | | 1330 | 1725 | 870 | 860 |
| 9 | | 1940 | 1955 | 895 | 870 |
| 10 | 3630 | | | 1080 | |

16 candle test
285- 1- 3012-01

Yours truly
J. Marshall.

THE EDISON ELECTRIC LAMP CO.,

Thomas Edison,
Chief Engineer,
Franklin H. Upton,
Edward H. Johnson.

Menlo Park, N. J., November 22, 1881

Mr. C. A. Edison,

Dear Sir;

Please find below the record of the several
48 candle tests up to 3-00 P.M. to-day.

529 - Day run Nov. 21. 530 - Night run Nov. 21.

533 - " " " 23. 532 - " " " 22.

534 - " " " 23.

| | 529. | 530 | 532 | 533 | 534 |
|----|------|------|------|-----|-----|
| 1 | | | | 110 | 110 |
| 2 | | | | 115 | 195 |
| 3 | | | | 230 | 285 |
| 4 | | | | 285 | 285 |
| 5 | | | | 300 | 375 |
| 6 | | | | 325 | 610 |
| 7 | | | | 350 | 635 |
| 8 | | | | 585 | 805 |
| 9 | | | | | 820 |
| 10 | 3840 | 2930 | 1470 | | |

16 candle test

285 - 1 - 3035 - 26.

Yours truly
J. Marshall.

Ask when I hear from
 be a record
 sent in to day
 Mr. J. H. Johnson;

THE EDISON ELECTRIC LAMP CO.,
 Thomas A. Edison,
 Chief Engineer,
 Francis H. Upton,
 Rayner H. Johnson.

Menlo Park, N. J., December 12, 1881

Dear Sir;

Please find enclosed the record of the several 48 candle tests from Nov. 22 up to 3:00

P.M. to-day 534 Night run Nov. 23, 1881

533 Day run Nov 23, 1881 536 " " " 28. "

535 " " " 28 " 539 " " " 29. "

545 " " Dec 1 " 541 " " " 30 "

543 Regular lamps run in regular manner with a tin case on them while on pumps

546. Day run Dec 2, 1881 544 Night run Dec 1, 1881

548 " " " 3, " 547 " " " 2, "

549 " " " 5, " 551 " " " 6, "

550 " " " 6, " 553 " " " 7, "

552 " " " 7 " 559 " " " 8, "

554 Lamps heated in tin cases Dec 7, 1881

556 " " " " " " 9. "

557 Regular lamps- moisture taken out with air pump- heated with alcohol lamp just before putting on pumps. Dec 9, 1881

560 Lamps brought to a red on B. current- then brought up high on A current & let burn high until tube gets solid Dec. 10. 1881

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Frankie R. Upton,
Edward H. Johnson.

Menlo Park, N. J., _____ 188

| | 533 | 534 | 535 | 536 | 539 | 541 | 543 | 544 | 545 | 546 | 547 |
|----|------|------|------|------|------|------|------|------|---------------------|------|------|
| 1 | 110 | 110 | 75 | 50 | 15 | 60 | 625 | 85 | 150 | 55 | 145 |
| 2 | 115 | 195 | 180 | 120 | 100 | 195 | 1205 | 275 | 280 | 80 | 185 |
| 3 | 230 | 265 | 205 | 125 | 305 | 505 | 1360 | 355 | 295 | 315 | 240 |
| 4 | 265 | 265 | 395 | 370 | 670 | 540 | 1430 | 530 | 405 | 800 | 295 |
| 5 | 340 | 375 | 475 | 565 | 695 | 662 | 1570 | 815 | 425 | 855 | 530 |
| 6 | 325 | 610 | 540 | 670 | 1105 | 1160 | 1570 | 935 | 595 | 1045 | 600 |
| 7 | 350 | 635 | 650 | 970 | 1210 | 1300 | 1865 | 935 | 770 | 1475 | 650 |
| 8 | 585 | 805 | 670 | 1045 | 1360 | 1945 | 2460 | 1165 | 980 | 2025 | 970 |
| 9 | 1670 | 820 | 730 | 1110 | 2585 | 2190 | 3295 | 1735 | 1705 | 2080 | 1015 |
| 10 | 1680 | 2095 | 985 | 1340 | 3480 | 3085 | 3880 | 3010 | 1870 | 3415 | 1315 |
| | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 556 | 557 | 559 | 560 |
| 1 | 165 | 45 | 45 | 230 | 55 | 5 | 55 | 190 | 20 | | 52 |
| 2 | 355 | 100 | 270 | 305 | 225 | 75 | 225 | 275 | 25 | | 155 |
| 3 | 540 | 470 | 415 | 460 | 235 | 205 | 225 | 510 | 140 | | 160 |
| 4 | 590 | 920 | 425 | 1045 | 255 | 460 | 345 | 570 | 180 | | 220 |
| 5 | 640 | 1035 | 450 | 1410 | 770 | 850 | 405 | 835 | 230 | | |
| 6 | 1190 | 1090 | 460 | 1700 | 865 | 990 | 600 | 1085 | | | |
| 7 | 1445 | 1515 | 485 | 2280 | 985 | 1250 | 675 | 1470 | Dring N. 2 arc'd. | | |
| 8 | 1680 | 1560 | 615 | 2430 | 1620 | 1400 | 1075 | 1485 | Jours. Trunk
18m | | |
| 9 | 1855 | 2585 | 800 | 2545 | 2405 | 1460 | 1660 | | | | |
| 10 | 3050 | 2860 | 3100 | 2870 | | 1460 | 1675 | | | | |

Yours truly
J. Marshall

THE EDISON ELECTRIC LAMP CO.,

W. A. Edison,
 Chief Engineer,
 Frank R. Upton,
 Edward H. Johnson.

Menlo Park, N. J., December 16, 1881

Mr. A. A. Edison;

Dear Sir;

Please find below the record of the several 48
 candle tests up to 9-00 P.M. to-day

556-Lamps in tin cases.

557-Lamps heated with alcohol lamp.

558-Day run Dec. 8. 559-Night run Dec. 8.

560-Lamps brought red on B. current & then brought
 high on A., & let run for solid tubes.

561-Day run Dec. 10. 562-Day run Dec. 12.

563-Night run Dec. 12. 565-Day run Dec. 13.

567-Night run Dec. 14. 568-Day run Dec. 15.

| | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 567 | 568 |
|----|------|------|------|------|------|------|------|------|------|-----|-----|
| 1 | 190 | 20 | 170 | 180 | 52 | 230 | 170 | 50 | 50 | 65 | 80 |
| 2 | 275 | 25 | 460 | 190 | 155 | 435 | 480 | 175 | 400 | 170 | 70 |
| 3 | 510 | 140 | 1040 | 530 | 160 | 1055 | 715 | 525 | 615 | 340 | 190 |
| 4 | 570 | 180 | 1040 | 605 | 220 | 1160 | 745 | 530 | 830 | 440 | 205 |
| 5 | 835 | 230 | 1125 | 895 | 420 | 1245 | 1040 | 810 | 1005 | 470 | 290 |
| 6 | 1085 | 585 | 1295 | 1620 | 820 | 1605 | 1045 | 1010 | 1670 | | 880 |
| 7 | 1475 | 855 | 1610 | 1655 | 965 | 1655 | 1150 | 1050 | 1840 | | |
| 8 | 1490 | 990 | 2235 | 2450 | 990 | 1780 | 1155 | 1305 | 2380 | | |
| 9 | 2785 | 1070 | 2355 | 2840 | 1050 | 1925 | 1485 | | | | |
| 10 | | 2455 | 5375 | 3020 | 1715 | 1965 | 1705 | | | | |

Yours Truly
 J. P. Marshall.

Pile

THE EDISON ELECTRIC LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Francis R. Upton,
Edward H. Johnson.

Menlo Park, N. J., December 20, 1881

Mr. A. A. Edison;

Dear Sir;

Please find below.

The several 48 candle tests up to 3-00 P.M. to-day.

563-Night run Dec 12. 564-Lamps with long seals.

565-Day run Dec 13. 567-Night run Dec. 14.

568- " " " 15. 570- " " " 15.

569-Lamps covered with varnish after taking
candle-power.

571-Day run Dec 16.

572 Lamps heated just before putting on
the pumps.

573 Night run Dec. 16.

574 Day run Dec. 17.

| 563 | 565 | 567 | 568 | 564 | 569 | 570 | 571 | 572 | 573 | 574 |
|-----|------|------|------|------|------|------|------|------|------|------|
| 6 | | | | 1 | | | | 150 | 70 | 550 |
| 7 | | | | 2 | | | | 230 | 195 | 715 |
| 8 | | | | 3 | | | | 1290 | 1195 | 1275 |
| 9 | 4815 | | | 4 | 2075 | | | 1510 | 1310 | 1640 |
| 10 | 5055 | 4900 | 2990 | 3135 | 5 | 2205 | 2135 | 1960 | | |

Yours truly
J. Marshall

THE EDISON LAMP CO.,

Thos. A. Edison,
Chas. Batchelor,
Freddie B. Upson,
Edward H. Johnson.

Menlo Park, N. J., December 21, 1881

Mr. P. A. Edison;

Dear Sir;

Please

find below the record of the
several 48 candle tests up to
3-00 P. M. to-day.

569. Lamps covered with varnish
after taking candle power.

572. Lamps heated just before
putting on pumps.

573 Night run Dec. 16.

569 No. 5 - 3935.

572 " 5 - 2265.

573 " 5 - 2385.

Yours truly
J. B. McCall.

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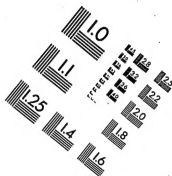
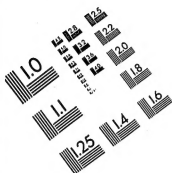
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